CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 28	Shakopee, Minn.	Aug. 17
Aug. 28	Sibley, Ill.	Aug. 17
Aug. 29	Brooklyn, N. Y.	Aug. 24
Aug. 29	Charlotte, N. C.	Aug. 10
Aug. 29	St. George, N. Y.	Aug. 24
Aug. 29	New York, N. Y.	Aug. 24
Aug. 30	Columbus, Neb.	Aug. 24
Aug. 30	Scituate, R. I.	Aug. 3
Aug. 30	Madison, N. J.	Aug. 17
Aug. 30	Tredford, Neb.	Aug. 24
Aug. 30	Dinuba, Calif.	Aug. 24
Aug. 30	Villisca, Ia.	Aug. 24
Sept. 1	Royalton, Minn.	Aug. 24
Sept. 8	Port Dover, Ont.	Aug. 24
Sept. 9	Voorheesville, N. Y. Adv. Aug. 24.	Aug. 24
Sept. 15	Grants Pass, Ore.	July 27
Sept. 15	Plaquemine, La.	Aug. 3
Sept. 25	Tulsa, Okla. Adv. Aug. 24.	Aug. 24
Oct. 1	Ponchatoula, La.	Aug. 3

SEWERS

Aug. 28	Stewart, Minn.	Aug. 17
Aug. 28	Long Island City, N. Y.	Aug. 24
Aug. 28	Portsmouth, Va.	Aug. 24
Aug. 28	Montreal, Que.	Aug. 24
Aug. 29	South Bend, Ind. Adv. Aug. 24.	Aug. 24
Aug. 29	Newark, N. J.	Aug. 10
Aug. 29	Havana, Ill.	Aug. 24
Aug. 30	Brooklyn, N. Y.	Aug. 24
Aug. 31	Marion, O. Adv. Aug. 17 and 24.	Aug. 17
Aug. 31	Two Rivers, Wis.	Aug. 24
Sept. 4	Redwood City, Calif.	Aug. 17
Sept. 5	Plainfield, N. J. Adv. Aug. 17 and 24.	Aug. 17
Sept. 6	Gardnerville, Nev.	Aug. 17
Sept. 6	Little Falls, N. J.	Aug. 24
Sept. 6	Rye, N. Y. Adv. Aug. 24.	Aug. 24
Sept. 7	Phila., Pa. Adv. Aug. 24.	Aug. 24
Sept. 7	Spring Valley, N. Y. Adv. Aug. 17 and 24.	Aug. 17
Sept. 8	Port Dover, Ont.	Aug. 24
Sept. 15	Eveleth, Minn.	Aug. 17
Sept. 19	Newark, N. J.	Aug. 24

BRIDGES

Aug. 28	Maynard, O.	Aug. 17
Aug. 29	Wellington, New Zealand	July 13
Aug. 29	Alabama	Aug. 24
Aug. 29	Bessemer, Mich.	Aug. 24
Aug. 30	Newton, Ill.	Aug. 17
Aug. 30	Richland, N. Y. Adv. Aug. 17 and 24.	Aug. 17
Aug. 30	North Carolina	Aug. 17
Aug. 30	Quebec	Aug. 24
Aug. 30	Marine City, Mich.	Aug. 24
Aug. 31	Oroville, Calif.	Aug. 24
Sept. 1	Knoxville, Tenn.	July 27
Sept. 1	Ohio	Aug. 24
Sept. 2	Bagby, Calif.	Aug. 24
Sept. 5	Houston, Tex.	Aug. 10
Sept. 5	Ft. Lauderdale, Fla. Adv. Aug. 17 and 24.	Aug. 17
Sept. 5	Augusta, Ga.	Aug. 17
Sept. 5	Greenfield, Ind.	Aug. 17
Sept. 5	Williamsport, Pa.	Aug. 24
Sept. 5	Stockton, Calif.	Aug. 24
Sept. 7	New Braunfels, Tex. Adv. Aug. 17 and 24.	Aug. 17
Sept. 7	Savannah, Ga.	Aug. 17
Sept. 7	Nashville, Tenn.	Aug. 3
Sept. 8	Vicksburg, Miss. Adv. Aug. 24.	Aug. 24
Sept. 11	California	Aug. 24
Sept. 14	Tennessee Adv. Aug. 24.	Aug. 24
Oct. 1	Siam	July 13
Oct. 31	Sydney, Australia	Jan. 12
Sept. 1, 1923	Sydney, New South Wales, Australia	Aug. 3

DAM

Sept. 5	Beacon, N. Y. Adv. Aug. 24.	Aug. 24

EXCAVATION AND DREDGING

Aug. 28	Biggs, Calif.	Aug. 17
Aug. 29	Wooster, O. Adv. Aug. 17 and 24.	Aug. 17
Aug. 29	Olivia, Minn.	Aug. 24
Aug. 31	Grenada, Miss.	Aug. 24
Aug. 31	Garner, Ia.	Aug. 24
Sept. 1	Colorado Springs, Colo.	Aug. 24
Sept. 4	Jeanerette, La.	Aug. 24
Sept. 7	Aberdeen, S. D.	Aug. 24

STREETS AND ROADS

Aug. 26	New Albany, Ind.	Aug. 24
Aug. 28	California	Aug. 10
Aug. 28	Crown Point, Ind.	Aug. 24
Aug. 28	Youngsville, Pa.	Aug. 17
Aug. 28	Waukegan, Ill.	Aug. 17
Aug. 28	Waterloo, N. Y. Adv. Aug. 17 and 24.	Aug. 17
Aug. 28	Freehold, N. J. Adv. Aug. 17 and 24.	Aug. 17
Aug. 28	Greenfield, O.	Aug. 17
Aug. 28	Cleveland Heights (Warrensville P. O.), O.	Aug. 24
Aug. 28	Quebec	Aug. 24
Aug. 28	Montreal, Que.	Aug. 24
Aug. 29	Connecticut Adv. Aug. 24.	Aug. 24
Aug. 29	Maryland Adv. Aug. 17 and 24.	Aug. 17
Aug. 29	New York Adv. Aug. 17 and 24.	Aug. 17
Aug. 29	Michigan	Aug. 17
Aug. 29	El Dorado, Kan.	Aug. 10
Aug. 29	St. George, N. Y.	Aug. 24
Aug. 29	Michigan	Aug. 24
Aug. 29	Coburg, Ont.	Aug. 24
Aug. 29	West View, Pa.	Aug. 24
Aug. 29	Alabama	Aug. 24
Aug. 30	Newburgh, N. Y. Adv. Aug. 24.	Aug. 24
Aug. 30	North Carolina	Aug. 3
Aug. 30	North Carolina	Aug. 10
Aug. 30	Little Rock, Ark. Adv. Aug. 10 to 24.	Aug. 10
Aug. 30	Michigan	Aug. 17
Aug. 30	North Carolina Adv. Aug. 17 and 24.	Aug. 17
Aug. 30	Columbus, O.	Aug. 17
Aug. 30	Wisconsin	Aug. 24
Aug. 30	Brooklyn, N. Y.	Aug. 24
Aug. 31	Sacramento, Calif.	Aug. 17
Aug. 31	New York, N. Y.	Aug. 24
Aug. 31	Saline, Kan.	Aug. 24
Aug. 31	Oroville, Calif.	Aug. 24
Aug. 31	Michigan	Aug. 24
Sept. 1	Georgia	Aug. 17
Sept. 1	St. George, S. C.	Aug. 17
Sept. 1	Blue Earth, Minn.	Aug. 17
Sept. 1	Wellington, Kan.	Aug. 17
Sept. 1	Somerville, N. J. Adv. Aug. 10 to 24.	Aug. 17
Sept. 1	Long Island City, N. Y.	Aug. 24
Sept. 1	Ohio	Aug. 24
Sept. 1	Cleveland, O.	Aug. 24
Sept. 1	Valley Falls, Kan.	Aug. 24
Sept. 1	Wauwatosa, Wis.	Aug. 24
Sept. 1	Dunbar, Pa.	Aug. 24
Sept. 2	Lincoln, Neb.	Aug. 24
Sept. 5	Washington	Aug. 10
Sept. 5	Spencer, Ind.	Aug. 24
Sept. 5	New Jersey Adv. Aug. 24.	Aug. 24
Sept. 5	Oskaloosa, Ia.	Aug. 24
Sept. 5	Quebec	Aug. 24
Sept. 5	Marshall, Minn.	Aug. 24
Sept. 5	Fresno, Calif.	Aug. 24
Sept. 5	Yuba City, Calif.	Aug. 24
Sept. 5	Safety Harbor, Fla.	Aug. 24
Sept. 6	Stockton, Calif.	Aug. 24
Sept. 6	Albion, Ind.	Aug. 24
Sept. 6	Goshen, Ind.	Aug. 24
Sept. 6	Red Bank, N. J. Adv. Aug. 17 and 24.	Aug. 17
Sept. 8	Somerville, N. J. Adv. Aug. 17 and 24.	Aug. 17
Sept. 11	Crescent City, Calif.	Aug. 17
Sept. 12	Mound City, Kan.	Aug. 24
Sept. 12	Bridgeton, N. J. Adv. Aug. 24.	Aug. 24
Sept. 14	Mobile, Ala. Adv. Aug. 24.	Aug. 24
Sept. 14	Tennessee	Aug. 24
Sept. 18	Charleston, Miss. Adv. Aug. 24.	Aug. 24
Sept. 19	New Orleans, La.	July 6
Sept. 29	Tulsa, Okla.	Aug. 24

INDUSTRIAL WORK

Sept. 1	Long Island City, N. Y.	Aug. 17
Sept. 1	Phila., Pa.	Aug. 24
Sept. 6	Cohoes, N. Y. Adv. Aug. 17 and 24.	Aug. 17

BUILDINGS

Aug. 28	Asbury Park, N. J.	Aug. 24
Aug. 28	Boston, Mass.	Aug. 24
Aug. 28	Wauwatosa, Wis.	Aug. 17
Aug. 28	Erie, Pa.	Aug. 17
Aug. 28	Albany, N. Y.	Aug. 17
Aug. 28	Montreal, Que.	Aug. 24
Aug. 28	Maple Heights (Bedford P. O.), O.	Aug. 24
Aug. 28	Greenville, O.	Aug. 24
Aug. 29	Toronto, Ont.	Aug. 24
Aug. 29	Lykens, Pa.	Aug. 24
Aug. 30	Atlanta, Ga.	Aug. 24
Aug. 31	New York, N. Y.	Aug. 3
Aug. 31	Baton Rouge, La.	Aug. 17
Aug. 31	Owen Sound, Ont.	Aug. 24
Sept. 1	Michigan City, Ind.	Aug. 24
Sept. 1	Syracuse, N. Y.	Aug. 24
Sept. 1	Knoxville, Tenn.	July 20
Sept. 5	Smyrna, Del. Adv. Aug. 10 to 24.	Aug. 10
Sept. 5	Teaneck (Englewood P. O.), N. J. Adv. Aug. 24.	Aug. 24
Sept. 6	Milaca, Minn.	Aug. 17
Sept. 7	Columbus, O.	Aug. 17
Sept. 11	Oakland, Calif.	Aug. 10
Sept. 16	St. Thomas, Ont.	Aug. 24
Sept. 30	Duluth, Minn.	July 13
Oct. 1	Duluth, Minn.	Aug. 3

FEDERAL GOVERNMENT WORK

Aug. 25	Office, Storehouse, etc.—Buffalo, N. Y. Adv. Aug. 3 to 24.	Aug. 3
Aug. 26	Tunnel, Conduit, etc.—Wash., D. C.	Aug. 24
Aug. 28	Remodeling — Raleigh, N. C.	Aug. 3
Aug. 28	Dredging — Providence, R. I. Adv. Aug. 10 to 24.	Aug. 10
Aug. 30	Circulating Loop — Mare Island, Calif.	July 27
Aug. 30	Stables—Plattsburg, N. Y.	Aug. 17
Aug. 31	Canal—Klamath Falls, Ore.	July 27
Aug. 31	Dredging — Providence, R. I. Adv. Aug. 10 to 24.	Aug. 10
Aug. 31	Remodeling, etc. — Baltimore, Md.	Aug. 17
Sept. 1	Refrigerating Plants—Perryville, Md.	July 20
Sept. 1	Sand and Gravel—New Orleans, La. Adv. Aug. 10 to 24.	Aug. 10
Sept. 1	Road—Dover, N. J. Adv. Aug. 17 and 24.	Aug. 17
Sept. 5	Dredging — New York, N. Y. Adv. Aug. 3 to 24.	Aug. 3
Sept. 5	Steel Gates — Nashville, Tenn.	Aug. 3
Sept. 5	Dykes, etc.—New Orleans, La.	Aug. 3
Sept. 5	Spur-dikes — New Orleans, La. Adv. Aug. 10 to 24.	Aug. 10
Sept. 5	Dredge Pontoons, etc.—Mobile, Ala. Adv. Aug. 17 and 24.	Aug. 17
Sept. 6	Motors, etc.—Yuma, Ariz.	July 27
Sept. 6	Dredging—Phila., Pa.	Aug. 10
Sept. 6	Riprap Protection — Hampton Roads, Va.	Aug. 24
Sept. 7	Stone—New Orleans, La. Adv. Aug. 10 to 24.	Aug. 10
Sept. 8	Mezzanine—St. Louis, Mo.	Aug. 24
Sept. 12	Hospital — Northampton, Mass. Adv. Aug. 24.	Aug. 24
Sept. 13	Guard House, etc.—San Diego, Calif.	Aug. 24
Sept. 14	Dredging—Norfolk, Va.	Aug. 17
Sept. 15	Repairing Jetty—Providence, R. I. Adv. Aug. 24.	Aug. 24
Sept. 15	Barges—New Orleans, La. Adv. Aug. 24.	Aug. 24
Sept. 18	Barges—Florence, Ala. Adv. Aug. 24.	Aug. 24
Sept. 18	Turbine—Florence, Ala. Adv. Aug. 24.	Aug. 24
Sept. 21	Jetty Repairs—Jacksonville, Fla. Adv. Aug. 24.	Aug. 24

MISCELLANEOUS

Aug. 28	Mechanical Equipment—Sacramento, Calif.	Aug. 3
Aug. 28	Paving Materials—St. Paul, Minn.	Aug. 17
Aug. 28	Ornamental Lighting System—St. Paul, Minn.	Aug. 24
Aug. 28	Road Roller, etc.—West Allis, Wis.	Aug. 24

Bids Close		See Eng. News-Record
Aug. 29	Ornamental Lights — Long Branch, N. J. ..... Adv. Aug. 24.	Aug. 24
Sept. 1	Dumping Platform and Ramp —New York, N. Y.	Aug. 24
Sept. 2	Heating Mains—San Antonio, Tex.	Aug. 24
Sept. 5	Fire Alarm System, etc.—Kansas City, Mo.	Aug. 10
Sept. 6	Truck Bodies, etc.—San Francisco, Calif.	Aug. 17
Sept. 6	Refrigeration Work—Marcy, N. Y. ..... Adv. Aug. 24.	Aug. 24
Sept. 8	Mechanical Equipment — Wilmington, Del. ..... Adv. Aug. 24.	Aug. 24
Sept. 15	Piping, etc. — Hammond, Ind. ..... Adv. Aug. 24.	Aug. 24
Sept. 16	Strain & Pin Type Insulators —Melbourne, Australia ...	July 27
Oct. 10	Steam Turbine, etc.—New Orleans, La. ..... Adv. Aug. 17 and 24.	Aug. 17
Nov. 4	Transformers, etc. — Melbourne, Australia	Aug. 17

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Batavia—Plans 6 in. mains in 400 ft. Bank St., 750 ft. State St., 500 ft. Hutchins St., 180 ft. Lewis Ave., 900 ft. Walnut St., 300 ft. Walnut Pl., 900 ft. Elmwood Ave., 375 ft. School St., 650 ft. Otis St., 650 ft. James St., 650 ft. Ross St., 1,075 ft. Trumbull Pl., 325 ft. Seneca Ave., 500 ft. Eleanor Pl., 375 ft. Hutchins Pl., $30,000.

N. Y., Lyons—Wayne Co. plans 2 mi. 6 in. mains from Wayne Co. Home to Lyons. $18,000. Engineer not announced.

W. Va., Martinsburg—Making plans renewing mains. $15,000. T. Sparrow, Queen and Burke Sts., city engr.

Miss., Pelahatchee—See "Miscellaneous."

O., East Youngstown—Mahoning Valley Water Co., 403 Mahoning Bank Bldg., Youngstown, plans new booster station to supply additional water to large mills. $15,000. T. Evans, supt. Engineer not announced.

Ia., Wayland—Making plans waterworks. $25,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Minn., Pelican Rapids—Having preliminary survey made for new waterworks system. $25,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Wash., Everett—Purchased 21 acre site for new 3 unit reservoir, (1 unit will be built at this time). Proposed storage dam will have capacity of 20,000,000 gal. A. B. Cutter, 3410 Norton St., engr.

Wash., Tacoma—Bd. Pub. Wks. plans repairs to water system, incl. lining one end McMillin reservoir with gunite, lining 300 ft. of 48 in. spillway pipe with steel and gunite, reinforcing footings; also replacing pipe, incl. 1,145 ft. 30 in. c.i. pipe. $51,500. I. S. Davisson, 923 South 8th St., engr.

Ont., Brockville—Soon takes bids reconstructing pumping machinery. $5,800. G. K. Dewey, clk.

BIDS DESIRED

N. Y., Brooklyn — Aug. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ocean Parkway, Concourse Dr. and Surf Ave., here.

N. Y., New York—Aug. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Marginal St., west of New York Central R.R., Manhattan Boro; Rodman Pl., Unionport Rd. and Pelham Parkway N., Astor, Birchall, Bronxwood, Fish, Grand, Mace, Morgan, Needham, Tyndall, Wilcon and Young Aves., West 180th and Sagamore Sts., Bronx Boro.

N. Y., St. George—Aug. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Bloomfield, Cannon, Drake and Hughes Aves., etc., here.

N. Y., Voorheesville—Sept. 9, by Bd. Village Trustees, Hose House, furnishing about 450 ton 8 in. Class "B" c.i. pipe, also constructing concrete reservoir, hauling and laying about 3½ mi. 8 in. Class "B" c.i. pipe. W. W. Chadsey, 434 State St., Schenectady, civil and sanitary engr.; adv. this issue. Noted May 18.

Ia., Villisca—Aug. 30, for 100,000 gal. steel tank and 60 ft. tower. T. S. De Lay, Creston, engr. Noted April 27.

Minn., Royalton—Sept. 1, by city, deep well pump machinery. J. J. Chirhart, clk. R. E. Borrowman, St. Cloud, engr.

Neb., Columbus—Aug. 30, by Henningson Eng. Co., engrs., Natl. Bldg., Omaha, 10 ton c.i. pipe, resetting pumps, one 250,000 gal. steel tank on 120 ft. steel tower, brick power house, 375 cu.yd. concrete and 6,500 lb. reinforcing in pump house, tank and tower foundations, here. $36,882.

Neb., Tredford—Aug. 30, at City Clerks Office, purchasing 4 and 6 in. c.i. pipe, 2 in. galvanized steel pipe, 250 g.p.m. centrifugal pump, 140 head, one 13,500 gal. pneumatic tank, etc. $10,000.

Okla., Tulsa—Sept. 25, by Water Comn., for Contrs. 1-11 inclusive of Spavinaw Water Supply Project. Tremmell & Holway, 329 Kennedy Bldg., engrs. D. H. Maury, 1445 Monadnock Blk., Chicago, consult. engr.; adv. this issue.

Calif., Dinuba—Aug. 30, by C. T. Reagan, city clk., automatic pressure regulator, enclosed in steel cabinet, Electric Controller & Mfg. Co.'s, or 1033-A, or equal; safety switch, oil immerse automatic compensator, No. 1 Electric Controller & Mfg. Co.'s, or equal; overland protective panel, H. T. Electric Controller & Mfg. Co.'s, or equal; centrifugal pump, Cameron make No. 4, type D.V. or equal; motor, Robbins & Meyers make, type K or equal. C. E. Sloan, Santa Fe Bldg., San Francisco, engr.

Ont., Port Dover—Sept. 8, by J. S. Martin, reeve, 7 mi. of 6 and 8 in. c.i. water mains, 40 hydrants, 2 centrifugal pumps, one gasoline and one electrically driven, pumphouse, 200,000 gal. standpipe, 150 ft. high. $60,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co. opened bids Aug. 16, constructing Impvt. 8 of county water supply system, 25,400 ft. 6-12 in. c.i. pipe, from D. Pfahl & Co., Berea Rd., $88,532; Hadded-Mall Co., Schofield Bldg., $89,062; Gantose Constr. Co., Columbia Bldg., $90,403.

CONTRACTS AWARDED

Fla., Vero—Waterworks system (well not included), to E. G. Ladd, 530 Riverside Ave., Jacksonville. $52,000. Noted June 29.

O., Cleveland—Cuyahoga Co. for Impvt. 14 of county water supply system, 24,570 ft. 4-12 in. c.i. pipe, to Gantose Constr. Co., Columbia Bldg., $92,250. Noted Aug. 17.

O., Columbus—See "Streets and Roads."

O., Rome (Hilliards P. O.)—Franklin Co. (Columbus), 13,500 ft. c.i. mains in Sewer Dist., Prairie 1, here, to Burnip Constr. Co., 223 East Broad St., Columbus, $25,314. Noted Aug. 17.

Minn., West Concord—Waterworks improvements; steel tower and tank, to Minneapolis Steel and Mchy. Co., Minnehaha Ave., Minneapolis, $6,989; erecting pump house, removing present building, shaft extension and pulley, etc., to F. E. Wright, West Concord, $2,950. Project complete will cost $35,000. Noted Aug. 3.

N. D., Valley City—Improving water works system incl. concrete reservoir, 500,000 gal. capacity also vitr. segment brick storm sewers, to Haggart Constr. Co., 60 Bway., Fargo, $90,581 and $22,653 respectively.

Calif., Reedley—Erecting steel tank and tower, to Pittsburg-Des Moines Steel Co., Rialto Bldg., San Francisco, $6,599. Noted Aug. 17.

Sewers

PROPOSED WORK

Pa., Jersey Shore—Plans sewage disposal plant. $25,000. Engineer not announced.

Pa., Pittsburgh—Plans sanitary sewers in Vera Way, Shady and Timberland Aves., Elysian, Selwyn, Parviss and Wightman Sts. $25,000, also sanitary sewer in Pioneer Ave., $35,000.

Pa., Pottstown—Plans to issue $200,000 bonds for sewerage system and sewage disposal plant.

O., Canton—Preparing plans and specifications new addition to sewage disposal plant. $700,000. McClasky & Reese, Canton, engrs.

O., Columbus—Making plans for relief sewer in Arcadia Ave. $25,000. R. H. Simpson, city engr.

O., Massillon—Making preliminary surveys sewerage system in west end of city. $25,000. H. P. Howald, city engr.

Minn., Pelican Rapids—Having preliminary surveys made sanitary sewerage system. $40,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Okla., Tulsa—Bd. Comrs. receives bids about the middle of October, for 11th St. Relief Sewer. Bond issue $900,000, auth. Schultz, city engr., W. W. Horner, St. Louis, Mo., consult. engr.; adv. this issue.

Calif., Delano—Had plans prepared 1 rein.-con. settling tank, 2 sludge beds, each to have excavated roadways and 200 ft. 6 in. underdrain, 910 ft. concrete cradle, 2 concrete flush tanks, 138 concrete manholes, 51 concrete dropmanholes, 80,509 ft. 8-24 in. bell and concrete pipe, 2,738 wyes. City will furnish pipe and wyes. J. Bates, Rowell Bldg., Fresno, engr.

Ont., Ford—Preparing plans new sewers, $100,000. Prices wanted on materials. M. E. Brian, City Hall, Windsor, engr.

Ont., Riverside (via Windsor)—Preparing plans trunk sewerage system and sewage disposal plant. $150,000. Prices wanted on all materials. W. Code, City Hall, Riverside (via Windsor), engr.

Ont., Simcoe—Takes bids early in September, storm and sanitary sewers in Argyle, Robinson, Queen and West Sts. $30,000. G. R. Marston, city engr.

BIDS DESIRED

N. Y., Brooklyn—Aug. 30, by E. Riegelman, boro pres., Boro Hall, relief sewer in Pitkin Ave. between Powell St. and Stone Ave.; sewers in New York Ave. between East New York Ave. and Empire Blvd., Lefferts Ave. between Nostrand and New York Aves., Sterling St. between Nostrand and New York Aves., East 39th St. from Clarendon Rd. to Ave. D, Ave. D from East 40th to East 37th Sts., with temporary connection at Ave. D and East 37th St., 18th Ave. between 53rd and 57th Sts., East 13th St. between end of existing sewer about 163 ft. south of Ave. K and Ave. L, 55th St. between Ft. Hamilton Parkway and 11th Ave., 11th Ave. between 55th and 56th Sts., Creamer St. between Otsego and Columbia Sts., New York Ave. between Midwood and Hawthorne Sts., Ridge Blvd. between Bay Ridge and Ovington Ave.; sewer basins on southwest corner of Foster Ave. and East 26th St., northeast corner of Ave. K and East 8th St.

N. Y., Buffalo—See "Streets and Roads."

N. Y., Long Island City—Aug. 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Newtown Rd., Homan, Lewis and Atfield Aves., Hosack, Proctor and 89th Sts.

N. Y., Rye—Sept. 6, by Village Trustees for c.i. main sewer. G. E. Hill, 45 7th Ave., New York City, engr.; adv. this issue. Former bids rejected. Noted July 27.

Pa., Erie—See "Streets & Roads."

Pa., Phila.—Sept. 7, Southwest sewage pumping station, 40th Ward Lowland Drainage. F. H. Caven, dir.; adv. this issue.

Va., Portsmouth—Aug. 28, at office of City Manager, Municipal Bldg., sewers and appurtenances in streets and alleys of West Park View and Park View, incl. 11,446 lin. ft. terra cotta sewer, 447 lin.ft. 10 in. Class B c.i. pipe, 12,150 lin.ft. 4 in. terra cotta house connections, etc.; in West High St. et al., 2,096 lin.ft. 12-27 in. terra cotta sewer, 2,429 lin.ft. 36-48 in. sewer, etc. J. E. Weaver, Jr., city engr.

Ind., South Bend—Aug. 29, by Dept. Pub. Wks., River Park Trunk sewer Dist. No. 1. $70,000. V. C. Sweeney, clk.; adv. this issue.

Ill., Havana—Aug. 29, by Bd. Local Impvts, sewers in various streets. $32,000. C. H. Kreiling, Havana, engr.

Wis., Two Rivers—Aug. 31 by J. Doleyish, clk., 910 ft. 27 and 30 in. monolithic concrete and 5,981 ft. 10-24 in. vitr. pipe sewers in West 19th, Washington and Monroe Sts. C. J. Popelka, City Hall, engr.

Ont., Port Dover—Sept. 8, by J. S. Martin, reeve, 2,000 ft. of 15 and 18 in. glazed tile sewer from town limits to Black Creek. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Que., Montreal—Aug. 28, by Executive Com., 1,916 ft. sewer in Mariette St., from Sherbrooke St. to Canadian Pacific Ry., 195 ft. George Etienne Cartier St. from St. Ambroise St. to point 195 ft. north, 143 ft. Racine St. from Blvd. Gouin southerly, 2,239 ft. Jacques Hertel St. from Monk Blvd. to Orchard St., all foregoing 2 x 3 brick; 420 ft. 12 in. tile pipe in Trudel Lane from St. Martin to Richmond Sts R. Bauset, city clk.

BIDS RECEIVED

N. Y., New York — See "Streets and Roads."

Sewers (Continued)

CONTRACTS AWARDED

Conn., New Britain—Contract B of East Side Trunk Sewerage System, 2,300 lin.ft. 24 in. sewer pipe, etc., to Berardino & Manocchio, Hartford, $37,363; constructing 765 ft. tunnel across Piper Brook, under railroad tracks, and into East St., 1,735 ft. 24 in. vitr. pipe sewer, to Battaglia & Liardi, Hamilton St., New Britain, $16,375.

N. Y., Eastwood—See "Streets and Roads."

N. Y., Rochester—See "Streets and Roads."

Pa., Pittsburgh—Sewers in Spring Garden Ave., to C. Donatelli, 1313 Collier St., $39,072.

O., Columbus—See "Streets and Roads."

Mich., Menominee—Main trunk sewer to Nebel Bros., Gladstone, $34,410. Noted June 22.

Wis., Milwaukee—Intercepting sewer in Watertown Plank Rd. from 40th St. to City of Wauwatosa, to Mid West Constr. Co., 253 Walker St., $114,000. Noted Aug. 17.

N. D., Valley City—See "Waterworks."

Que., Montreal—**To A. Thezand, 885 St. Catherine St. E., 750 ft. 2 x 3 brick sewer in Bordeaux St. from Gilford to St. Jerome Sts., $3,040, 4,125 ft. in Laverdure St. from Gouin Blvd. to 42nd Ave., $19,490.**

Waste Disposal

PROPOSED WORK

Okla., Tulsa—Soon receives bids additior to incinerator. $35,000. C. Schultz, city engr.

Bridges

PROPOSED WORK

N. Y., Auburn—Plans new steel bridge encased in concrete, utilizing abutments of present bridge, State St. $38,000. M. F. Dullea, city engr.

Pennsylvania—New York Central R.R., Grand Central Terminal, New York, and Bessemer & Lake Erie R.R., Erie, plans to eliminate grade crossings on Route 82 near Osgood, and build overhead bridge. $71,000. F. H. Hardin, New York, ch. engr. New York Central R.R., H. T. Porter, Greenville, ch. engr. Bessemer & Lake Erie R.R.

Pa., Pottstown—Montgomery Co. plans Ferry bridge, rein.-con., 45 ft. wide. $550,000. D. A. Keefe, Athens, engr.

W. Va., Clarksburg—Harrison Co. plans constructing, reconstructing and improving bridges. $30,000. C. N. Parrish, clk.

Tenn., Knoxville—Making plans repairing bridge, incl. replacing bolts, floor joists expansion joints, brackets that support side walls and several buckle plates, also resurfacing. $30,000. Taking bids for creosoted block. $1,000. G. R. Stephen, Knoxville, engr.

Wis., Wauwatosa—Road and Bridge Comn., Milwaukee Co., soon receives bids 80 ft. rein.-con. arch bridge on West Main St. $40,000. State Hy. Comn., Madison, engrs. Noted Jan. 12.

Calif., San Luis Obispo—San Luis Obispo Co. rejected bids 110 ft. steel truss bridge, 21 ft. roadway, concrete abutments, over Cholame Creek. Will readvertise. W. B. Burch, Lowe Bldg., San Luis Obispo, engr. Noted July 27.

BIDS DESIRED

Alabama—Aug. 29, by W. S. Keller, state highway engr., Montgomery, 3 concrete bridges, deck girder type, on Greenville-Camden Rd., Wilcox Co., incl. 994.27 cu.yd. Class A concrete, 157,537 lb. reinforcing, 2,800 lin.ft. concrete piles, 599 sq.yd. of 4 in. Class A concrete surfacing, etc.

Miss., Vicksburg—Sept. 8, by Bd. Supervs. Warren Co. at office of J. G. Sherard, chancery clk., bridge over Big Black River at Baldwins Ferry, 12 mi. from here, on Baldwins Ferry Highway. H. R. Rhodes, co. engr.; adv. this issue.

Tennessee—Sept. 14, by Dept. Highways, Nashville, superstructure for bridge over Cumberland River near Clarkesville. D. Q. McComb, ch. engr.; adv. this issue.

Ohio—Sept. 1, by Dept. Highways and Pub. Wks., Columbus, bridges in following counties:

Guernsey Co., Sect. "I" National Rd., $9,326.

Guernsey Co., Sect. "K" National Rd., $9,765.

Crawford Co., Sect. "G" Bucyrus-Crestline Rd., $12,697.

Butler Co., Sect. "C" Hamilton-Scipio Rd., $1,458.

Butler Co., Sect. "J" Hamilton-Middletown Rd., $2,051. L. C. Herrick, dir. highways.

Ohio—Sept. 5, by W. H. Duffy, dir. Pub. Serv., Columbus, for Rathbone Bridge and road improvement in Concord Twp., Delaware Co., 860 cu.yd. earth excav., for road, 565 cu.yd. earth excav. for abutments, 2,200 cu.yd. earth excav. in borrow pit, 380 cu.yd. rock excav., 2,850 cu.yd. earth embankment, 2,980 cu.yd. concrete, 2,590 sq.yd. macadam road, new bridge span and raising existing bridge, etc. $125,000. R. H. Simpson, City Hall, Columbus, engr.

Mich., Bessemer—Aug. 29, by State Hy. Dept., Lansing, building Bridge 270103, concrete girder with 3 spans, 130 ft. long, Gogebic Co.

Mich., Marine City—Aug. 30, by State Hy. Dept., Lansing, Bridge 770901, 135 ft. swing, 1,020 cu.yd. rein.-con., 99,220 lb. reinforcing. Noted Aug. 17.

Wyo., Sheridan—Receiving bids and opens same about Sept. 11, concrete arch bridge, 1 or 2 spans, over Big Goose Creek, on Doucks St., $30,000. E. C. Gwillim, city engr. Noted July 27.

California—Sept. 11, by State Hy. Comn., Sacramento, rein.-con. bridge with 100 ft. main arch span, four 15 ft. girder spans, abutments, piers and retaining walls; also constructing railroad abutment, over Susan River near Fredonia, Lassen Co. A. B. Fletcher, state highway engr.

Calif., Bagby—Sept. 2, by Supervs. Mariposa Co., (Mariposa), 180 ft. steel span bridge over Merced River, here, 108 ft. approaches. Alternate bids for timber or concrete approaches and floor. A. E. Cowell, 639 19th St., Merced, engr. Noted Aug. 10.

Calif., Oroville—Aug. 31, by Supervs. Butte Co., bridges as follows: (1) over east channel Butte Creek on Goodspeed Watt Rd., 84.8 cu.yd. A rein.-con., 69 cu.yd. excav., 46 cu.yd. backfill; (2) over Mud Creek, on Hicks Lane, 152 cu.yd. A. rein.-con., 91 cu.yd. excav., 68 cu.yd. backfill; (3) over West channel, Butte Creek, 245.5 cu.yd. A. rein.-con., 130 cu.yd. excav., 100 cu.yd. backfill; (4) over Wyman Ravine on Watt Colony Rd., 84.8 cu.yd. A. rein.-con., 62 cu.yd. excav., 40 cu.yd. backfill; (5) over Overflow Channel on Rock Creek, on Keefer Rd., 58.9 cu.yd. A, rein.-con., 30 cu.yd. excav., 21 cu.yd backfill. H. H. Hume, co. road engr.

Calif., Stockton—Sept. 5, by Supervs. Sacramento and San Joaquin Counties, 640 ft. bridge over Dry Creek, concrete pile, timber deck. F. E. Quail, surveyor of San Joaquin Co.

Quebec—Aug. 30, by J. L. Boulanger, deputy minister Dept. Rds., Quebec, rein.-con. bridge on De Ligne Brook Chambly, iron bridge on River du Nord, rein.-con. bridge on Foisy River, St. Sauvour Parish, Terrebonne Co. $100,000.

BIDS RECEIVED

Pennsylvania—State Hy. Dept., Harrisburg, opened bids Aug. 8, bridge over Rayston River, near Tatesville, Bedford Co., (1) concrete, (2) steel, from Concrete Steel Bridge Co., Clarksburg, Va., (streets address not available) (1) $30,235, (2) $35,207, Whittaker & Diehl, Union Trust Bldg., Harrisburg, (1) $30,437, (2) $31,000, Independence Bridge Co., May Bldg., Pittsburgh, (2) $39,400; steel bridge over west branch of Susquehanna River in Clearfield Co., from G. A. Flink, 222 Market St., Harrisburg, $23,475, Independence Bridge Co., May Bldg., Pittsburgh, $24,400, Walter & Gregg, Pittsburgh, (streets address not available). $25,000.

Calif., Stockton—Supervs. San Joaquin Co. opened bids. 9 rein.-con. bridges on Jack Tone Rd., from L. W. Larsen, Route 1, Box 85, Turlock, $15,292; 2 rein.-con. bridges on McKinley Ave., also West Lane Bridge, rein.-con., girder type, latter involves 522 cu.yd. concrete, 39 ton reinforcing steel, from Davidson & Nicolsen, 180 Jessie St., San Francisco, $8,343 and $16,680 respectively. Noted July 20.

CONTRACTS AWARDED

N. Y., Rochester—New concrete bridge over Erie Canal bed on South Ave., to Seneca Eng. Co., Rochester, (street address not available) $55,642. Noted May 25.

Alabama—W. S. Keller, state highway engr., Montgomery, 15 bridges all concrete girder type except two 100 ft. arch bridges, one 102 ft. 6 in. steel span and one 80 ft. steel span on Guin-Winfield Rd., Marion Co., to Smith Co., 30 3rd Ave. W., Birmingham, $127,771. Noted Aug. 17.

Ohio—Dept. Highways and Pub. Wks., Columbus, 1,115 ft. rein.-con. viaduct, on Sect. "R" Cleveland-Buffalo Rd., Ashtabula Co., to Pitt Constr. Co., Fulton Blk., Pittsburgh, $348,034. Noted Aug. 10.

Ohio—Dept. Highways and Pub. Wks., Columbus, 2 steel bridges on Sect. "N" Hillsboro-Washington Rd., Highland Co., to Perkins Structural Steel Co., Wooster, $10,362; bridge on Sect. "U" Columbus-Portsmouth Rd., Pickaway Co., to M. M. Kirton, Circleville, $12,170; 11 ft. slab top bridge on Sect. "P" Milford Hillsboro Rd., Brown Co., to F. M. Mark, Washington C. H., $2,571. Noted Aug. 17.

O., Cleveland—Cuyahoga Co. concrete arch bridge on Highland Rd., to Nelson & Kelly, West 126th St., $23,603. Noted Aug. 17.

Colorado—State Hy. Dept., Denver, concrete bridge and approaches (Marsh type) across South Platte River just north of Ft. Morgan, Morgan Co., to Colorado Bridge & Constr. Co., Gas & Electric Bldg., Denver, $80,101.

Calif., Eureka—F. M. Kay, clk. Humboldt Co., 3 steel truss bridges over Bluff, Slate and Antelope Creeks, to Padgett & Kelly, Eureka, $33,000. Noted July 27.

B. C., Revelstoke—Provincial Government, Victoria, substructure incl. 2 cylindrical piers sank 70 ft. below low water, and steel superstructure for four 154 ft. one 212 ft., one 110 ft. and 2 small approach spans over Columbia River, total length 1,000 ft., 16 ft. wide, substructure and erection of steel trusses to Grant, Smith & Co. and McDonell, 436 Prior St., Vancouver, $140,000; fabrication of steel, to J. Coughlan & Sons, Front and Columbia Sts., Vancouver, $60,000.

Dams

BIDS DESIRED

N. Y., Beacon—Sept. 5, by City Council, 525 Main St., repairs to Dam 537, South Mountain, Mt. Beacon Reservoir. G. W. Kreiger, Jr., Poughkeepsie, consult. engr.; adv. this issue.

BIDS RECEIVED

N. Y., Newburgh—W. J. McKay, city mgr., opened bids Aug. 14, 2 dams at Silver Stream, alternate A, from Mapes & Erway, Warren, O.; alternate B from Ward & Tully, 189 Montague St., Brooklyn. Noted Aug. 3.

CONTRACTS AWARDED

Calif., Marysville—Yuba Development Co., Hobart Bldg., San Francisco, (a) enlarging dam, (b) constructing power house, to Bent Bros., 1714 Eagle Ave., Los Angeles, (a) $330,680, (b) $12,974. Noted Aug. 17, under "California."

B. C., Ocean Falls—Pacific Mills Ltd., 510 Hastings St. W., Vancouver, raising height of existing dam at Link Lake near here, by 15 ft., incl. 16,000 cu.yd. concrete, 50 ton steel, to Robertson & Rendell, 504 Credit Foncier Bldg., Vancouver, $250,000.

Railways

PROPOSED WORK

Georgia—Crescent Lumber Co., Hillacooche, plans 6 mi. line to take care of operations on tract company has purchased. $25,000.

BIDS RECEIVED

New York—Transit Comn., 49 Lafayette St., New York, opened bids Aug. 15, installing tracks for portion of 14th St.-Eastern Line, in Boroughs of Manhattan and Brooklyn, from T. H. Reynolds Constr. Co., 50 Park Pl., New York, $241,470. Noted Aug. 3.

CONTRACTS AWARDED

British Columbia—British Columbia Electric Ry., Hastings and Carrol Sts., Vancouver, will build 1 mi. double track on 9th Ave. from Trafalgar St. to Alma Rd., by day labor. $70,000. A. C. Eddy, c/o owner, engr.

Excavation and Dredging

PROPOSED WORK

N. C., Greenville—Pitt Co. Drainage Comrs. plan drainage 20 mi. Swift Creek. G. T. Leach, Washington, chn. D. D. 2.

La., New Iberia—Bd. Drainage Comrs, Bayou Carlin Drainage Dist., plans drainage system. $46,000. C. L. Provost, secy.-treas.

Minn., Redwood Falls—Redwood Co. rejected bids 4 sections Co. Ditch 33, 111,850 cu.yd. excav. G. P. Smith, Central Bank Bldg., St. Paul, engr. Noted June 29.

BIDS DESIRED

La., Jeanerette—Sept. 4, by Bd. Drainage Dist., dredging St. Marys, Iberia and old Delahousaye Canals, either by yard or mile. Proposals will also be received for drainage boat. J. Moresci, secy.

Miss., Grenada—Aug. 31, by Bd. Comnrs., Potacocowa Creel, D. D., Carrol and Grenada Counties, 2.21 mi. open ditch, 90 ft. base, 7 ft. average cut, 1:1 side slopes and 3.2 mi. of levee, 6 ft. crown, 2:1 slopes, 10

Excavation and Dredging (Continued)

ft. average fill, all to form floodway to control Potacocowa Creek, 391,500 cu.yd. dragline earth excav., and 5.75 acres clearing. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Ia., Garner—Aug. 31, by C. Jacobs, aud. Hancock Co. and E. F. Peterson, aud. Kossuth Co., (Algona) D. D. 120-7, 60,000 cu.yd. excav., 57,874 lin.ft. 6-36 in. tile, 8,000 cu.yd. cleanout. $35,000.

Minn., Olivia—Aug. 29, by Rentville Co., Ditch 86, 6 mi. north of Renville, 118,200 lin.ft. 5-28 in. tile. $40,000. A. O. Schmidt, co. aud.

S. D., Aberdeen—Sept. 7, by Brown Co. drainage project 1,000,000 cu.yd. excav. $150,000.

Colo., Colorado Springs—Sept. 1, by Dirs. Beaver Park Land & Water Co., 301 Mining Exch. Bldg., Brush Hollow-Reservoir near Penrose, embankment will contain about 308,000 yd. earth with rip rap face, (5,700 yd.), puddle core, concrete spillway. $225,000. G. C. Anderson, 533 Consolidated Realty Bldg., Los Angeles, Calif., engr.

CONTRACTS AWARDED

La., Lawtell—C. N. Bertrand, pres. Bd. Comrs. St Landry Parish, Bank of Lawtell, excav. and dredging 600,000 cu.yd. and building gravity drainage system, to McWilliams Dredging Co., Exch. Bldg., Memphis, Tenn., $11.40 per cu.yd. Noted July 13.

Minn., Fairmont—Martin Co., Co. Ditch 105, Martin and Jackson Counties, 9,639 cu.yd. excav., 36,650 lin.ft. 6-30 in. tile, and Co. Ditch 104, Martin Co., 762 cu.yd. excav., 25,405 lin.ft. 6-24 in. tile, to A. Sanderson, Blue Earth, $28,000.

Streets and Roads

PROPOSED WORK

N. Y., Elmira—Chemung Co. plans paving 3 mi. Elmira-Lowman Rd., concrete. $40,000.

N. Y., Jamestown—Plans paving Monroe, Peach and Murray Sts., with No. 1 Hillside brick blocks on 5 in. concrete. $25,000. L. Bergman, City Hall, city engr.

N. Y., Jamestown—Plans repaving East 2nd St. from Winsor St. to city line, 40 ft. $30,000. Estimate based on sheet asphalt, but brick will also be considered. L. Bergman, City Bldg., city engr.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids opened July 25, grading, curbing, recurbing, flagging, reflagging, paving, etc., 46th St. from Jackson to Roosevelt Aves. Will readvertise. Noted Aug. 3.

N. Y., Niagara Falls—Soon takes bids paving 24th St. from Ferry Ave. to Pine St., wood or granite block, $36,580, brick or asphalt, $34,270. Former bids rejected. W. B. Bennett, Convention Hall, city engr. Noted July 27.

N. Y., Rochester—Plans widening East Ave. between boundary and Fairport Rd., from present width of 16 ft. to 24 ft. $50,000. C. A. Poole, city engr.

N. Y., Rochester—Monroe Co. plans Allen Creek Rd. $7,000, Cheese Factory Rd. $10,000 and Bay Rd. $3,200, in Pittsford; Cheese Factory Rd. $8,000 and Lincoln Mills Bridge $3,600, in town of Menden. G. C. Wright, co. engr.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, rejected bids opened Aug. 8, reconstructing with concrete pavement roadway Richmond Turnpike, etc. Will readvertise. Noted Aug. 17.

New Jersey—State Hy. Dept., Trenton, plans improving Old Bridge-Matawan Rd., Middlesex Co. $90,000. T. S. Wasser, Broad St. Bank Bldg. ,Trenton, engr.

N. J., Elizabeth—Union Co. plans paving ½ mi. Front St. from Park Ave., Scotch Plains, to Watchung Ave., Plainfield. $45,000. J. L. Bauer, co. engr.

Pa., Ambridge—Plans to vote $155,000 bonds for paving Merchant St. Address C. F. Straube, burgess.

W. Va., Clarksburg—Harrison Co. plans improving and repairing roads. $465,502. C. N. Parrish, clk.

Alabama—State Hy. Dept., Montgomery, plans grading and surfacing 11.98 mi. road from Decatur to Russellville, Morgan Co. line to Moulton, Lawrence Co., 2½ in. bituminous macadam. $300,000. W. S. Keller, state highway engr.

Tenn., Knoxville—See "Bridges."

O., Akron—M. P. Tucker, dir. Pub. Serv., takes bids in September, grading, paving and laying sidewalks on 2,800 ft. North Main St., 54 ft., vitr. brick or asphalt, $70,000, 2,000 ft. Aqueduct St., 30 ft., 3,700 lin. ft. stone curb, 3,000 cu.yd. earth excav., 7,200 sq.yd. vitr. brick or asphalt, $38,000, 900 ft. Middlebury Ave., 24 ft. pavement, 1,750 lin.ft. stone curb, 2,400 sq.yd. vitr. brick or asphalt, $12,000; grading and laying sidewalks on 3,500 ft. Englewood Ave., 6 ft. walks, 39,800 sq.ft. cement sidewalks, 5,650 cu.yd. earth excav., $19,000, 2,000 ft. Lakemont and Hillcrest Sts., 6 ft. walks, 21,000 sq.ft. 4 in. cement sidewalk, 7,500 cu.yd. earth excav., $12,000. E. A. Kemmler, Delaware Bldg., engr.

O., Canton—Kent Co. plans paving 1.5 mi. Canton Sherman Church Rd., brick, asphalt, concrete or similar material, $25,000; 5 mi. Canton-Navarre Rd. from end of present pavement to Massillon Rd., brick, concrete or asphalt, to exceed $100,000.

O., Columbus—W. H. Duffy, dir. Pub. Serv., cancelled bids which were to be opened Aug. 15, grading, curbing, laying water mains and sewer connections and paving 6,485 ft. 5th Ave., from Perry St. to alley west of Parker St., 30 and 36 ft., brick $120,440, asphalt $108,193; 2,099 ft. 5th Ave. from Sunbury Ave. to point 490 ft. east of Nelson Rd., 30 ft., brick $37,158, asphalt $35,205. Will readvertise. R. H. Simpson, city engr. Noted Aug. 10.

O., Dayton—Will vote on $300,000 bonds in November paving East 3rd St. from railroad to Linden St., 2nd St. from Wilkinson to St. Clair Sts., East 5th St. from Stone to Linden Sts., Valley St. from Ohio to Lukaswitz Sts., Ridge St. from Main to Riverside Sts., Cornell St. from Salem St. to corporation line, Riverview St. from Yunker to Vermillion Sts., West 3rd St. from Bank to Summit Sts., Home St. from Western St. to corporation line, Germantown St. from Washington St. to Bway., Cincinnati St. from Washington to Bolender Sts., Washington St. from Main to Germantown Sts., St. Paul St. from Huffman to Wyoming Sts., brick, asphalt, wood block and concrete. $500,000. I. E. Houk, city engr.

O., Newark—Had plans prepared 6 mi. graveling and paving, incl. grading and graveling Ridge Ave., paving North Vernon Rd., Hudson Ave., South Williams, 8th, Mound, Channel and Columbia Sts., brick, asphalt or concrete. $55,000.

O., Warren—Trumbull Co. will sell $136,000 bonds Aug. 30 to improve 3 mi. Youngstown-Conneaut Rd. (County Highway 13). R. G. Taylor, co. surv.

Ind., Angola—Steuber Co. plans grading and gravel surfacing 15,370 ft. Lynn Collins Rd., 18 ft. $26,500. F. Hubbel, Angola, engr.

Ind., Greencastle—Putnam Co. plans paving 7,921 ft. James B. Scott Rd., 16 ft., 14,071 sq.yd. waterbound macadam on concrete. $31,000. A. Plummer, Greencastle, engr.

Ind., Jeffersonville—Comrs. Clark Co. received no bids Aug. 8 paving 9,343 ft. James Hilzer Rd., 16 ft., 16,597 sq.yd. waterbound macadam on concrete. $39,000. Will readvertise. Noted Aug. 3.

Ind., Lawrence—Dearborn Co. plans surfacing 31,498 ft. Jacob Hoffmeier Rd., 16 ft., broken stone. $42,000. H. Fitch, Lawrenceburg, engr.

Ind., Marion—Grant Co. plans paving 10,600 ft. Lewis E. Bryant Rd., 16 ft., 19,730 sq.yd. asphalt on concrete, $44,500; 14,237 ft. Julius C. Lake Rd., 16 ft., 25,547 sq.yd. asphalt on asphalt. $52,000. G. Swisher, Marion, engr.

Ind., Winamac—Pulaski Co. plans gravel surfacing 23,892 ft. R. A. Phillips Rd., 16 ft. $31,000. R. E. Nutt, Winamac, engr.

Michigan—State Hy. Dept., Lansing, plans grading and gravel surfacing 2⅜ mi. State Trunk Line Rd. 49-5, Sect. B, Livingston Co. F. F. Rogers, state highway comr.

Michigan—State Hy. Dept., Lansing, rejected bids Aug. 1, grading and surfacing 2.266 mi. State Trunk Line Rd. 17-5, Van Buren Co., 25,287 sq.yd. concrete. Project will probably be deferred until 1923. Noted July 27.

Michigan—State Hy. Dept., Lansing, rejected bids Aug. 9, grading and surfacing 1.063 mi. State Trunk Line Rd. 31-12, Sect. A, Huron Co. Deferred until 1923. Noted Aug. 3.

Mich., Detroit—Plans paving with 3½ in. sheet asphalt on 8 in. concrete, 9,500 sq.yd. Central Ave. from Warren to Tireman Aves., 26 ft., $36,190; 3,000 sq.yd. Arlington Ave. from Six Mile Rd. to Stender Ave., 26 ft., $12,500; 6,500 sq.yd. Savannah Ave. from Woodward Ave. to John R St., 26 ft., $30,330; 800 sq.yd. Terminal Ave. from Detroit Terminal R.R. to Edlie St., 26 ft., $3,900; also 5 alleys with one course concrete totaling $20,150.

Mont., Havre—Hill Co. soon receives bids surfacing 10 mi. Highway Project 132, Gildford to Rudyard, gravel and crushed rock. $25,000. E. J. Doreen, Havre, engr.

Missouri—State Hy. Dept., Jefferson City, plans 3.244 mi. road from Osceola north and southwest, 24 ft., State Aid Project 20.175, St. Clair Co., 9,587 cu.yd. earth and 1,690 cu.yd. rock excav., 2,172.8 cu.yd. concrete masonry, etc.; 2.806 mi. road from Unionville northward and southward, 24 ft., State Aid Project 20.198, Putnam Co., 22,233 cu.yd. earth excav., 12,660 cu.yd borrow, 199.6 cu.yd. concrete masonry, etc.; 1.476 mi. road from St. Clair, southwestwardly, 24 ft., State Aid Project 20.204, Franklin Co., 7,792 lin.ft. grading, 10,386 sq.yd. specification C gravel pavement, 12 ft.; 3.144 mi. road from Vienna, northward, 24 ft., State Aid Project 20.98B, Maries Co., 16,600 lin.ft. grading, 22,315 sq.yd. specification C gravel pavement, 12 ft.; 2.386 mi. road from Dell southeastwardly, 24 ft., State Aid Project 20.99, Benton Co., 12,037 cu.yd. earth excav., 5,260 cu.yd. borrow, 149.1 cu.yd concrete masonry, etc.; 2.824 mi. road from Salem southwestwardly, 24 ft., State Aid Project 20.205, Dent Co., 14,880 lin.ft. grading, 19,960 sq.yd. specification C gravel pavement, 12 ft.; 3.523 mi. road from Hawkins Stove southwestwardly, 24 ft., State Aid Project 20.99B, Maries Co., 18,604 lin.ft. grading, 25,010 sq.yd. specification C gravel pavement, 12 ft. B. H. Piepmeier, State highway engr.

Colorado—State Hy. Dept., Denver, rejected bids grading 7.477 mi. Cocketopa Pass Rd. beginning at point about 6 mi. west of Saguache and extending westerly toward Cochetopa, Federal Aid Project 119-B, Saguache Co., 16 ft. $48,632. Will readvertise. Noted Aug. 3.

Colo., Denver—Making plans concrete paving 12 blocks Alley Paving Dist. 86. $27,409. A. K. Vickery, City Hall, engr.

Calif., Fresno—Fresno Co. had plans prepared improving about 1 mi. Ventura Ave., 9,800 cu.yd. earth work, 1,280 lin.ft. concrete curb, 262,250 sq.ft. 5 in. concrete base with 1½ in. asphaltic surface. C. P. Jensen, co. surv.

Calif., Lindsay—Rejected bids improving various streets. New bids later. H. Watts, city engr. Noted Aug. 17.

Calif., Martinez — Had plans prepared paving, etc., Green, Ward and Talbart Sts., 65,000 sq.ft. grading, 3,844 lin.ft. concrete curb, 7,875 sq.ft. concrete gutter, 55,200 sq. ft. asphaltic concrete with 1½ in. warrenite surface, 2,026 lin.ft. 4 and 6 in. vitr. sewer, etc. B. H. Greene, city engr.

Calif., Marysville—Supervs. Yuba Co. rejected bids improving 6 mi. Knox Rd., Sects. 1 and 2. Will readvertise. L. B. Crook, co. surv. Noted Aug. 3.

Calif., San Rafael — City Trustees rescinded contract awarded to S. P. Brownlee, San Rafael, surfacing various streets. New bids will be called early next year. Noted Aug 10.

Ont., Hamilton—Takes bids in 3 or 4 weeks new concrete sidewalks and curbs. $65,000, asphalt pavements, $55,000. Prices wanted on materials. E. R. Gray, city engr.

BIDS DESIRED

Connecticut—Aug. 29, by C. J. Bennett, state hy. comr., Hartford, paving North Westchester Rd. in Colchester, trap rock macadam; Water St., Derby, plain cement concrete; Main St., Naugatuck, sheet asphalt; Hanover and Baltic-North Franklin Rd., local stone or trap rock; South Main St., Seymour, vitr. brick on concrete, and plain cement concrete. E. C. Welden, div. engr.; adv. this issue.

N. Y., Brooklyn—Aug. 30, by E. Riegelmann, boro pres., Boro Hall, paving Ave. U from Ocean to Flatbush Aves., preliminary 7 in. concrete, Amboy St. from Livonia to Lott Aves., Bay 28th St. from Bath to Benson Aves., Ave. H from Ocean Parkway to Coney Island Ave., Snyder Ave. from New York to Brooklyn Aves., Sterling Pl. from Buffalo to Ralph Aves., 53rd St. from 16th to 17th Aves., repaving Ridge Blvd. from 86th St. to Shore Rd., Wilson Ave. from Cornelia to Moffat Sts., all foregoing sheet asphalt on 6 in. concrete; grading, curbing and flagging Troy Ave. from Crown St. to East New York Ave., 16th Ave. from 75th to 79th Sts.; curbing and paving 61st St. from 18th to 19th Aves., asphalt on 6 in. concrete; grading sidewalk space, curbing and laying sidewalks on Glenwood Rd. between Brooklyn Ave. and East 40th St.

N. Y., Long Island City—Sept. 1, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, and laying sidewalks on Potter Ave. from Van Alst Ave. to Goodrich St., 1st Ward, Hinman St. from Metropolitan Ave. to Wayne St., 2nd Ward; paving Potter Ave. from Barclay St. to 2nd Ave., 1st Ward, 101st

Streets and Roads (Continued)

(Jerome) Ave. from 111th St. (Greenwood Ave.) to Van Wyck Ave., both sheet asphalt on concrete; grading Jackson Ave. from Junction Ave. to 51st St., 2nd Ward; grading, curbing, laying sidewalks and paving Chaffee St. from Hughes St. to Catalpa Ave., sheet asphalt on concrete; curbing and laying sidewalks on Opdyke St. from Alburtis Ave. to 51st St.; grading and curbing, etc. 101st (Jerome) Ave. from 111th St. (Greenwood Ave.) to Van Wyck Ave.

N. Y., Newburgh—Aug. 30, by W. J. McKay, city mgr., City Hall, paving and improving Renwick St. between tracks of West Shore R.R. and Liberty St., also South St. between Water and Liberty Sts., granite block or vitr. hillside brick; adv. this issue.

N. Y., New York—Aug. 31, by Park Bd., Municipal Bldg., repaving heavy traffic road Southern Blvd. in southwesterly portion of Botanical Garden, Bronx Boro. F. D. Gallatin, pres.

N. Y., Rochester—Bd. Contr. and Supply, receiving bids asphalt paving Sumner Park $13,100 and Arnett Blvd. $11,300; sewers, walks and grading, Inglewood Dr. $9,200. C. A. Poole, city engr. Noted June 29.

N. Y., St. George—Aug. 29, by J. A. Lynch, pres. Richmond Boro, Boro Hall, reconstructing roadway of Richmond Turnpike from Bulls Head to Linoleumville factory, concrete.

New Jersey—Sept. 5, by State Hy. Dept., Trenton, constructing Route 7, Sect. 1, Corlies Ave., Neptune Twp., Monmouth Co., warrenite bitulithic on cement concrete. A. L. Grover, ch. clk.; adv. this issue.

N. J., Bridgeton—Sept. 12, by Bd. Freeholders Cumberland Co., reconstructing Sect. 1 of Landis Ave. also improving Cohansey Rd. W. M. Sharp, co. engr.; adv. this issue.

Pa., Dunbar—Sept. 1, by Twp. Supervs. 1 mi. brick surface on concrete, 16 ft. $75,000. Union Eng. & Constr. Co., Union Trust Bldg., Uniontown, engrs.

Pa., Erie—Taking new bids paving 3 streets Mill Creek Tube, brick, block or asphalt. $30,431. F. G. Lynch, city engr. Noted July 20.

Pa., West View—Aug. 29, by C. A. McClain, boro. secy., grading, paving and curbing Norwich St., Mt. Vernon and Ann Arbor Aves., 40 ft. $25,000. Blum, Wildin & Co., Bakewell Bldg., Pittsburgh, engrs.

Fla., Safety Harbor—Sept. 5, by A. E. Shaver, clk., pavements on various streets, incl. 8,000 cu.yd. excav., 5,180 sq.yd. vitr. brick, (relayed), 3,450 sq.yd. vitr. brick asphalt filler, 7,176 sq.yd. vitr. paving brick, 7,176 sq.yd. asphalt paving block, 6,002 sq.yd. sheet asphalt, 6,002 sq.yd. 5 in. rock, 5,358 lin.ft. 6 x 18 in. and 11,750 lin.ft. 4 x 15 in. concrete curbing, etc.

Alabama—Aug. 29, by W. S. Keller, state highway engr., Montgomery, grading and gravel surfacing 12.265 mi. Greenville-Camden Rd., Wilcox Co., incl. 20.35 acres clearing and grubbing, 157.74 cu.yd. Class F concrete, 628.6 cu.yd. Class A concrete, 61,469 lb. reinforcing steel, 28,800 cu.yd. gravel, etc.

Ala., Mobile—Sept. 14, paving, curbing and building storm sewers in various streets. W. Smith, city engr.; adv. this issue.

Miss., Charleston—Sept. 18, at Court House, grading and graveling 18½ mi. road between Philipp and Coward Rd. Dists. 4 and 5, Tallahatchie Co. Elliott & Harman Eng. Co., Bank of Commerce and Trust Co. Bldg., Memphis, Tenn., engrs.; adv. this issue.

Tennessee—Sept. 14, by State Hy. Dept., Nashville, surfacing Federal Aid Projects 22 and 24, section of State Highway 39 between Hamilton Co. line and eastern end of Federal Aid Project 72, Marion Co., 35,200 sq.yd. bituminous macadam, 16 ft., 35,060 sq.yd. reconstructed base course, 1,760 cu.yd. reconstructed base course stone, 1,840 boulders along shoulder, etc.; constructing Federal Aid Project 65-B, section of State Highway 1, between Cannon Co. line and McMinnville, Warren Co., 41,324 cu.yd. common excav., 60,732 sq.yd. 2½ in. bituminous macadam, 411.49 cu.yd. concrete, 33,302 lb. deformed steel bars, 62,819 sq.yd. "C" 8 in. hand placed coarse stone base also bridges over 20 ft. span, etc. D. Q. McComb, ch. engr.

Ohio—Sept. 1, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Ashland Co., Sect. "D" Mansfield-Wooster Rd., 3.527 mi., brick, $56,066.

Hancock Co., Sect. "Arcadia" Lima-Sandusky Rd., 0.461 mi., sheet asphalt, $32,470.

Huron Co., Sect. "P" Columbus-Sandusky Rd., 3.551 mi., waterbound macadam, $43,497.

Huron Co., Sect. "G-1" Oberlin-Norwalk Rd., 1.746 mi., brick, $53,777.

Noble Co., Sect. "K" Caldwell-Marietta Rd., 0.956 mi., plain concrete, $37,588.

Wayne Co., Sect. "O" Wooster-Mansfield Rd., 3.355 mi., brick, $140,097.

Lake Co., Sect. "B" Cleveland-Buffalo Rd., 1.089 mi., brick, $55,183.

Marion Co., Sect. "H" Marion-Galion Rd., 0.131 mi., brick on concrete, $10,756.

Huron Co., Sect. "J-2" Bellvue-Norwalk Rd., 0.9 mi., concrete curb, $5,074.

Huron Co., Sect. "N" Oberlin-Norwalk Rd., 1.32 mi., concrete curb, $7,659.

Huron Co., Sect. "O" Oberlin-Norwalk Rd., 1.28 mile, concrete curb, $7,174. L. C. Herrick, dir. highways.

O., Cleveland—Sept. 1, paving drives in Highland Park Cemetery, asphalt. $45,000. Former bids rejected. R. Hoffman, 618 City Hall, engr. Noted July 27.

O., Cleveland Heights (Warrensville P. O.)—Aug. 28, paving Cedar Rd. from Coventry to Lee Rds., Greyton Rd. from Taylor to Winsford Rds., Nela View Rd. from Taylor to Winsford Rds., Roanoke Rd. from Noble to Monticello Rds., brick, sheet asphalt or bituminous macadam. To exceed $25,000. H. H. Canfield, city engr. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Albion—Sept. 6 (change of date), by Comrs. Noble Co., gravel surfacing 5.2 mi. A. J. Rich Rd., 18 ft., $55,523; 8.7 mi. Samuel Weimer Rd., 18 ft., $72,070; 11.4 mi. Krieger Rd., 24 ft. $114,533. W. T. Knox, Albion, engr. Noted July 27.

Ind., Crown Point—Aug. 28, by Comrs. Lake Co., grading and gravel surfacing 33,400 ft. Bixenman Rd., 16 ft. $36,814. R. Seely, Hammond, engr.

Ind., Goshen—Sept. 6, by Comrs. Elkhart Co., paving 13,840 ft. Fish Lake Rd., 18 ft., 27,679 sq.yd. concrete on concrete. $63,250. C. L. Kinney, Goshen, engr. Noted Aug. 17.

Ind., New Albany—Aug. 26, by Comrs. Floyd Co., grading and gravel surfacing 31,287 ft. Elizabeth and New Albany Ridge Rd., 16 ft. $35,000. M. M. Boland, New Albany, engr. Noted Aug. 17.

Ind., Spencer—Sept. 5, by Comrs. Owen Co., paving 13,274 ft. Henry Reutschler Rd., 18 ft., crushed stone. $27,300. L. Drescher, Spencer, engr. Noted Aug. 17.

Michigan—Aug. 29, by State Hy. Dept., Lansing, grading and surfacing 1.986 mi. State Trunk Line Rd. 11-17, Sects. A, B and C, Manistee Co., 5,233 cu.yd. excav., 18,628 sq.yd. bituminous concrete or waterbound macadam. F. F. Rogers, state highway comr.

Michigan—Aug. 31, by State Hy. Dept., Lansing, grading and surfacing 2.97 mi. State Trunk Line Rd. 39-5, Sect. A, Barry Co., 7,941 cu.yd. excav., 27,878 sq.yd. gravel, also 4.206 mi. Federal Aid Project 63, Sect. B, Bay Co., 24,994 cu.yd. excav. F. F. Rogers, state highway comr.

Wisconsin—Aug. 30, by State Hy. Comn., at div. office 2, Stephenson Bldg., Milwaukee, grading and surfacing 2.86 mi. Brown Deer-Menomonee Falls Rd., Federal Aid Project 255, Milwaukee Co., 13,311 cu.yd. earth excav., 30,196 sq.yd. concrete surfacing, 29,895 lb. reinforcement in pavement, 10,500 bbl. cement in place, alternate bids on contractor furnishing all cement or state furnishing cement, (contractors are to present bids in both ways). A. R. Hirst, Madison, highway engr.

Wis., Wauwatosa—Sept. 1, by A. V. Brigham, clk., grading and concrete paving 3,860 sq.yd. 10th Ave. from Washington to North Aves., 870 sq.yd. Windsor Ave. from 10th to 11th Aves., 1,870 sq.yd. Thomas Ave., from Grand Ave. to city limits, 2,600 sq.yd. 55th St. from Grand Ave. to Blue Mound Rd., 2,800 sq.yd. 58th St., from Grand Ave. to Blue Mound Rd. $25,000. J. E. Lowther, City Hall, engr.

Ia., Oskaloosa—Sept. 5, at office of T. H. Carlin, city clk., 15 blocks paving, also 40,000 yd. resurfacing, 1,200 ft. curbing and guttering, 12,500 ft. gutter flag. H. C. Hawkins, city engr. Noted July 13.

Minn., Marshall—Sept. 5, by Lyon Co., gravel surfacing 13 mi. State Rd. 8, and 3.4 mi. State Rd. 7. $25,000. C. W. Anderson, Marshall, engr.

Kan., Mound City—Sept. 12 at office Clerk Linn Co., earthwork on 3,056 mi. La Cygne-Pleasanton-Prescott Rd., Sect. A, Project 132; 5.735 mi. La Cygne-Pleasanton-Prescott Rd., Sect. B, Project 109, both 29 ft. 6 in. C. E. Kenney, Mound City, engr.

Kan., Salina—Aug. 31, by C. Banker, city clk., paving, curbing and guttering Elm St. from Oakdale to Ohio Sts., and from 3rd to River Sts., Penn Ave. from Ash St. to Riverside Ave., Iron Ave. from Delaware to Penn Aves., Ash St. from Oakdale to Front Sts., 11th St. from Iron Ave. to State St., 12th St. from State to Ash Sts; curbing and guttering Jamestown Ave. from Front to Oakdale Sts., 26,700 sq.yd. paving, 10,300 lin.ft. curbing and guttering. $100,000. W. L. Theisner, Salina, engr.

Kan., Valley Falls—Sept. 1, by E. B. Samson, city clk., for 7,000 yd. paving, 2,100 lin.ft. curbing and guttering, 460 lin.ft. stone sewer. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Neb., Lincoln—Sept. 2, paving Dist. 496, 15,750 sq.yd. asphaltic concrete sheet asphalt and 10,400 lin.ft. combination curb and gutter; Dist. 392, 5,530 sq.yd. asphaltic concrete and 4,000 lin.ft. curb and gutter. G. Bates, engr.

Neb., York—A. B. Chatterton, city clk., taking bids and opens same about Sept. 1, paving 400 lin.ft. East 12th St., 5½ blocks of alleys, 14th St. from Lincoln to Grant Sts., 8th, 12th and 13th Sts. from Lincoln to Nebraska Sts., East Ave. from 12th to 10th Sts., East 10th St. from East St. to Elmer Ave., East St. from 7th to 8th Sts., East 8th St. from East to Blackburn Sts., Elmer St. to point 217 ft. north of East 8th St., Iowa and Grant Sts. from 5th to 3rd Sts., 4th St. from Lincoln to Grant Sts., Lincoln St. from 3rd St. S. to Beaver, 5th St. from Academy to Greenwood Sts., Grant St. from 7th to 8th Sts. Work involves 8,127 lin.ft. concrete curb, 20,796 lin.ft. combination concrete curb and gutter, 35,014 sq.yd. vertical fibre brick, asphaltic concrete or concrete on concrete, etc. $168,000. Scott & Scott, Bankers Life Bldg., Lincoln, engrs.

Okla., Tulsa—Sept. 29 at office C. Schultz, city engr., paving 18 blocks, asphaltic concrete, sheet asphalt, concrete, vibrolithic concrete, Willite or rock asphalt.

Colo., Denver—Sept. 2, by Manager Impvts. and Parks, concrete paving 11 blocks, West 44th Ave. Paving Dist. $27,510. A. K. Vickery, City Hall, engr.

Calif., Fresno—Sept. 5, by Supervs. Fresno Co., paving 4.37 mi. Route 20, Sect. A, Co. Highway system from Sanger to Adams Ave., 5 in. asphaltic concrete. $87,400. C. P. Jensen, Cory Bldg., Fresno, engr.

Calif., Oroville—Aug. 31, by Supervs. Butte Co., improving Oroville-Pentz Rd., Route 22, Sect. B, incl. (1) grading 4.8 mi., 5,478 cu.yd. earthwork, unclassified, (2) 2,400 ton broken stone base, 1½ in., (3) 7,160 ton broken stone base, 3 in. deep and ¾ in. to ⅞ and ⅞ in. to dust surfacing rock, (4) 382,000 sq.yd. asphaltic concrete wearing surface, 1½ in. thick, (5) 248 ton asphaltic oil penetration grade "E" spread. Items (2) and (4) are to be considered together as an alternative for items (3) and (5); grading and graveling 3 mi. Middle Honcut Cross Rd., 4 in. thick, 12 ft. wide; crushed rock surfacing ¾ mi. Neal Rd.; asphaltic macadam surfacing on 2 in. base, Laurel St., Stirling City; improving Oroville-Bangor Rd., Route 25, Sect. B, incl. 2,650 ton broken stone surfacing, 272 ton asphaltic oil grade "E"; improving Oroville-Pentz Rd., Sect. C, Route 22, incl. (1) grading 6.4 mi., 7,650 cu.yd. earthwork, unclassified, (2) 3,200 ton broken stone base, 1½ in. thick, (3) 9,520 ton broken stone base, 3 in. deep, ¾ in. to ⅞ in. and ⅞ in. to dust surfacing rock, (4) 506,000 sq.yd. 1½ in. asphalt concrete surfacing, (5) 330 ton asphaltic oil, penetration grade "E" spread. Items (2) and (4) are alternative for items (3) and (5) together. H. H. Hume Co. Road Engr.

Calif., Stockton—Sept. 6, by Supervs. San Joaquin Co., grading, gravel and rock oil top on Mt. Diablo Ave., $16,596; grading and gravel surfacing Imp. Norton Lane Rd., $16,801, Imp. Ashley Rd., $12,900; grading and constructing Imp. Central Ave., near Lodi, oil macadam, $2,600; grading Imp. Hoag Rd., east of Bellota, $6,500. F. E. Quail, co. surv.

Calif., Yuba City—Sept. 5, by Supervs. Sutter Co., 1 mi. Franklin Rd. from Bunce Lateral to Walton Ave., Alternate A, 15 ft. x 5 in. rein.-con., 18,000 sq.yd. grading, 1,250 cu.yd. paving; alternate B, 15 ft. x 4 in. asphaltic macadam, incl. old rock base, 700 ton crushed rock base, 9,500 sq. yd. asphaltic surface. O. W. Lanzendorf, co. engr.

Quebec—Aug. 28, by J. L. Boulanger, deputy minister of pub. wks., Quebec, 3,787 ft. road, waterbound or bituminous macadm.

Quebec—Sept. 5, by J. L. Boulanger, deputy minister pub. wks., Quebec, 11,490 ft. macadamized road in northeastern part of St. Anne de Beaupre Parish.

Que., Montreal—Aug. 28, by R. Bauset, city clk., asphalt pavements as follows: 2,070 ft. D'Argenson St., 5,000 ft. Butler St., 1,968 ft. St. Denis St., 1,968 ft. De St. Valier St., 1,240 ft. Shappard St., 1,555 ft. De Biencourt St., 2,250 ft. Hadley St., 2,437

Streets and Roads (Continued)

ft. Green St., 2,817 ft. Forsythe St., 1,744 ft. Davison St., 3,206 ft. Bellechasse St., 1,022 ft. Cartier St., 28-42 ft. wide; 38,290 ft. concrete sidewalks, on Francois Barry, Belanger, Begin, Benoni, Maplewood, 44th, Boyer, St. Denis, Lajeunesse, De Chateaubriand, Beaumont, Olympia, Fortune, Villeray, Clarke, Beaubien, Drolet, Jarry, Rosemount, Gounod, Dublin and Omer Sts., 5 and 6 ft. wide.

Ont., Cobourg—Aug. 29, by James, Proctor & Redfern, engrs., 36 Toronto St., Toronto, 1 mi. pavement, 25,000 sq.yd. asphalt, concrete or bitulithic. $100,000.

B. C., Prince Rupert—Receiving bids and opens same about Aug. 26, grading and paving 5,531 ft. 4th and 5th Aves., bituminous macadam, also 8,000 lin.ft. concrete sidewalks. $40.100. A. Waittaker, city engr.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids Aug. 15, improving (1) 4.13 mi. Highway 1642 Cascade-Moravis, Cayuga Co., engrs. est. $162,024, (2) 3.54 mi. Highway 8021-B, Marathon-Cortland, Parts 2 and 3, Cortland Co., engrs. est. $135,516, (3) 5.19 mi. Highway 8128 Essex-Willsboro, Part 1 and Highway 1641, Essex-Willsboro, Part 2, Essex Co., engrs. est. $145,249, (4) 7.96 mi. Highway 1643, Greenwood Lake-Tuxedo, Orange Co., engrs. est. $220,188, reconstructing (5) 3.11 mi. Repair Contr. 3022, Highway 615, New Lebanon-Brainard, Columbia Co., engrs. est. $101,776, (6) 0.24 mi. Repair Contr. 1352 Highway 549, Poughkeepsie-Pleasant Valley, Dutchess Co., engrs. est. $23,545, (7) 3.04 mi. Repair Contr. 3017 Highway 612, Pawling-Dover Town Line, Dutchess Co., engrs. est. $108,-841, (8) 3 mi. Repair Contr. 3015 Highway 5332, Lowville-Carthage, Lewis Co., engrs. est. $88,019, (9) 2.08 mi. Repair Contr. 1354 Highway 392, Oak Orchard, Part 1 and Highway 393 Oak Orchard, Part 2, Orleans Co., engrs. est. $52,442, from S. Rosoff, Warsaw, (1) $146,065; W. D. Fote, Olean, (1) $150,852, (2) $133,837; M. H. Ripton, Rochester, (1) $56,747, (8) $87,859; Lord Coopy & Co., Morrisonville, (3) $136,729; United Building & Constr. Co., Inc., Lodi, N. J., (3) $136,764; Hogeboom & Canfield, Inc., Kingston, (3) $139,533; J. J. Hart, 1009 Western St., Pittsburgh, Pa., (4) $207,-077; Ward & Tully, Inc., 189 Montague St., Brooklyn, (4) $215,408; J. L. Hayes Constr. Co., 58 South Bway., Yonkers, (4) $215,648; C. B. Lindholm, 53 North St., Pittsfield, Mass., (5) $99,919; Fowler & Bank, Inc., Mt. Kisco, (5) $101,424, (7) $102,088; Spoor-Lasher Co., Inc., 56 Market St., Poughkeepsie, (6) $22,088; Steam Shovel Excavation Co., Inc., Brooklyn, (7) $106,-029; Sperry Eng. Co., 82 Church St., New Haven, Conn., (7) $107,623; G. A. Smith, State St., Lowville, (8) $86,689; Dale Eng. Co., Mann Bldg., Utica, (9) $47,162; Municipal Constr. Co., U. C. N. B. Bldg., Utica, (9) $50,346; Ribstein-Holter Co., Inc., Rochester, (9) $50,925. Noted Aug. 3.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Aug. 16, paving (1) Crown St. from Albany to Troy Aves., (2) East 2nd St. from Elmwood Ave. to Ave. I, (3) East 15th St. from Kings Highway to Ave. R, (4) Kermit Pl. from East 8th St. to Coney Island Ave., (5) Ave. L from Coney Island Ave. to East 14th St., (6) Riverdale Ave. from Williams to Alabama Aves., (7) 10th Ave. from 38th to 39th Sts., and from 46th to 47th Sts., (8) 59th St. from 16th to 17th Aves., all foregoing asphalt on 6 in. concrete, repaving (9) Washington Ave. from Wallabout Canal to Flushing Ave., granite on 6 in. concrete, (10) 18th Ave. from 52nd to 60th Sts., asphalt on 6 in. concrete, resurfacing (11) Diamond St. from Meserole to Norman Aves., etc., asphalt, grading, curbing and laying sidewalks on (12) East 15th St. from Ave. V to Gravesend Neck Rd., grading, curbing and flagging (13) 10th Ave. from 38th to 39th Sts., recurbing and paving (14) DeKalb Ave. from Fulton St. to Vanderbilt Ave., (15) 66th St. from 12th to 13th Aves., both asphalt on 6 in. concrete, from

Cranford Co., 52 9th St., (1) $8,222, (2) $2,807, (3) $8,813, (4) $2,353, (5) $10,209, (6) $3,163, (7) $6,952, (8) $7,798, (10) $29,-378, (11) $44,791, (14) $51,814, (15) $6,299.

Cleveland Trinidad Paving Co., Flushing, (1) $8,748, (6) $3,245, (10) $32,000.

Borough Asphalt Co., 1301 Metropolitan Ave., (1) $8,872, (2) $2,665, (3) $9,372, (4) $2,133, (5) $10,876, (6) $3,300, (7) $6,947, (8) $8,035, (11) $58,543, (15) $6,495.

Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (2) $2,597, (3) $9,092, (4) $2,175, (5) $10,492, (7) $6,787, (8) $7,619, (15) $6,124.

J. Meehan & Son, 74 Cortland St., New York, (9) $103,040.

M. J. O'Hara, 717 65th St., (9) $104,917.

Leonard Paving Co., Inc., 233 Bway., New York, (9) $110,824.

Uvalde Asphalt Paving Co., 1 Bway., New York, (10) $34,792, (14) $65,116.

A. E. Castle, 3313 Tilden Ave., (12) $3,151, (13) $1,013.

G. M. Mandatto, 129 29th St., (12) $3,204.

T. B. Scott, 671 Halsey St., (12) $3,413.

L. Mangieri, 190 31st St., (13) $1,100.

Grimm Constr. Co., 170 McKinley St., (13) $1,109.

Sicilian Asphalt Paving Co., 41 Park Row, New York, (14) $47,807. Noted Aug. 10.

N. Y., New York — H. Bruckner, pres. Bronx Boro, opened bids Aug. 16, paving (1) East 178th St., grading, setting curb, laying sidewalks and crosswalks on (2) Weiher Court, etc., (3) Rochambeau Ave., sewers in (4) Mayflower Ave., (5) Tyndall Ave., (6) Kingsland Ave., (7) Delafield Ave., (8) Guion Pl., (9) Pierce Ave., from C. D. Beckwith, Inc., 2875 Bway., (1) $5,641, (2) $5,330; Asphalt Constr. Co., 208 Bway., (1) $6,585; Brusstar Constr. Co., Inc., Harlem River and 150th St., (1) $6,661, (2) $6,316; Interboro Asphalt Co., 233 Bway., (2) $5,620; M. DelBalso, 660 East 221st St., (3) $18,924, (8) $1,935; T. De Roma, (3) $19,956; Lamura Contg. Co., (3) $20,700; J. L. Sigretto, 1475 Woodhaven Ave., Woodhaven, (4) $12,623, (9) $24,886; McLaughlin & Buckley, 337 East 134th St., (4) $13,647, (5) $9,444, (6) $6,100, (7) $8,681, (8) $1,965; C. E. Farrell Contg. Co., 1981 Pilgrim Ave., (4) $13,730, (8) $2,016; Gregorio & Gabrille, (5) $9,275, (7) $8,801; D. Bonacci, (5) $10,444, (6) $6,860, (7) $9,008; J. V. Timoney Constr. Co., Inc., 220 East 201st St., (6) $7,219; Fordham Contg. Co., (9) $26,694; F. Gasparrini, (9) $25,536. Noted Aug. 10.

N. Y., Syracuse—Bd. Contract & Supply, opened bids July 31, paving (1) East Colvin St., concrete (2) Lilac St., vitr. brick and asphalt (3) Janesville Ave., concrete (4) Renwick Ave., asphalt, (5) East Adams St., from Mondo Constr. Co., City Bank Bldg., (1) $52,776 (3) $36,-126; J. H. Gallup, Union Bldg., (1) $59,231 (3) $42,340 (4) $56,725 (5) $27,012; McCarthy & Rock, Potsdam, (1) $63,345; G. B. Dickison, Union Bldg., (2) $24,586; T. Holihan, 164 Lewis St., Rochester, (2) $26,880; F. J. Baker, University Blk., (2) $24,833 (3) $45,189 (4) $54,690 (5) $27,-740; Dale Eng. Co., Mann Bldg., Utica, (4) $53,093 (5) $26,386. Noted July 27.

Alabama—W. S. Keller, state highway engr., Montgomery, opened bids Aug. 15, grading, concrete surfacing and constructing 120 ft. steel span bridge, on 4.82 mi. Montgomery-Selma Rd., Selma-Uniontown Rd. and Dixie Overland Highway, from Worthington & Co., 1st Natl. Bank Bldg., Birmingham, $139,698; Hancock Bros., 162 Conti St., Mobile, $148,371; J. S. Peterson, Montgomery, $150,583. Noted July 27.

O., Cleveland—Opened bids Aug. 9, paving (1) East 30th St. from St. Clair to Chester Aves. (2) East 138th St. from St. Clair Ave. to Woodworth Rd., with (a) granite (b) asphalt (c) brick, from Bentley Bros., 1836 Euclid Ave., (1a) $70,202 (1b) $69,050; Rieley Bros., The Arcade, (1a) $71,591 (1b) $70,057 (2c) $8,607; H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., (2c) $8,460. Work involves 5,050 cu.yd. earth excav., 13,900 sq.ft. brick on 6 in. concrete, 76,700 sq.ft. asphalt or granite block, 5,300 lin.ft. stone curb, 6,600 ft. 4 in. sewer pipe gutter.

Wisconsin — State Hy. Comn., Madison, grading and surfacing Spooner Cameron Rd., Project 251, Washburn Co., from Ord Co., Duluth, Minn., (street address not available), $15,353, Universal Eng. Co., Ingram Blk., Eau Claire, $18,840, Tilseth & Wilson, Menomonie, $19,377, Webster-Milltown Rd., Project 265-C, Polk Co., from Ord Co., Duluth, Minn., $18,114. Noted July 27.

Missouri—State Hy. Dept. at div. office Bloomfield, opened bids July 26, 9.943 mi. road from Gray Ridge westwardly, 24 ft., Federal Aid Project 118 B, Stoddard Co., (1) 24,670 cu.yd. earth excav., (2) 4,798 cu.yd. borrow, (3) 22,546 sq.yd. specification B gravel pavement, etc., from Novaculite Constr. Co., Marion, Ill., (1) $0.31 per cu.yd., (2) $0.31, (3) $0.53, total $28,950; W. A. Leach, Poplar Bluff, (1) $0.235, (2) $0.235, (3) $0.75, $31,905; J. H. Hewitt, Little Rock, Ark., (street address not available), (1) $0.27, (2) $0.26, (3) $0.77, $32,775.

Colorado—State Hy. Dept., Denver, gravel surfacing, (1) 3.634 mi. road beginning 1¾ mi. northwest of Grand Junction and extending northwest toward Fruita, Federal Aid Project 209, Mesa Co., 18 ft., (2) 8.341 mi. Sante Fe Trail, beginning at Hasty and extending easterly toward Lamar, Federal Aid Project 218-A, Bent Co., 18 ft.; concrete paving (3) 0.433 mi. road beginning at Arkansas River Bridge north of Las Animas and extending south to Las Animas city limits, State Project 630, Bent Co., 18 ft., (4) 4.049 mi. Ft. Collins-Denver Rd., Federal Aid Project 221, Larimer Co., surfacing and grading (5) 7.53 mi. Berthoud Pass Forest Rd. Project, Clear Creek Co., 18 ft., from Hinman Bros., Craig, (1) $37,822, (5) $125,383; F. L. Hoffman, 527 Mining Exch. Bldg., Denver, (1) $38,535; W. E. Check, 213 Plum St., Ft. Collins, (1) $41,213; Monaghan & Cunningham, 1710 Market St., Denver, (2) $47,499; W. A. Colt & Son, Las Animas, (2) $47,834, (3) $12,389; Pickering Bros., 460-7 East St., Salt Lake City, Utah, (2) $48,825; Pueblo Bridge & Constr. Co., Pueblo, (3) $12,795; Standard Eng. & Constr. Co., 518 E & C Bldg., Denver, (3) $14,252; F. C. Dreher Constr. Co., Cooper Bldg., Denver, (4) $124,842; Engineers Constr. Corp., 807 7th St., Greeley, (4) $126,660; Mutual Constr. Co., 419 Quincy Bldg., Denver, (4) $133,651; Fleming Bros. & Hoffman, 305 Bank Blk., Denver, (5) $110,650; White & Johnson, 521 Chamber Commerce Bldg., Denver, (5) $116,708. Noted Aug. 3.

Calif., Berkeley—Opened bids paving, etc., Grove St., Berkeley Way to Hopkins St., (1) 93,000 ft. grading, (2) 9,000 ft. concrete curb and gutter, (3) 75,000 sq.ft. 6 in. concrete base with 2 in. asphaltic concrete surface, from Warren Constr. Co., Bacon Bldg., Oakland, (1) $0.066, (2) $0.85, (3) $0.319; Bates & Borland, Oakland Bank of Savings Bldg., Oakland, (1) $0.065, (2) $1.60, (3) $0.31; Hutchinson Co., 1706 Bway., Oakland, (1) $0.06, (2) $1.70, (3) $0.31.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, paving 2,650 lin. ft. Fox Hill Rd., 20 ft., in Norwich, concrete and vitr. Hillside brick on 6 in. concrete, to A. G. Bianchi, Norwich, $28,288; 20,125 lin.ft. Willimantic Rd., 18 ft., in Coventry, bituminous macadam, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, $96,918. Noted Aug. 10.

Conn., Meriden—For 17,962 sq.yd. 3 in. sheet asphalt pavement on 6 in. concrete, and 5,108 sq.yd. Hillside brick on 6 in concrete, to Hudson Paving Co., 285 Bway., New York City. Engrs. est. $85,000.

N. Y., Brooklyn—E. Riegelmann, pres. Brooklyn Boro, Boro Hall, repaving Church Ave., to Borough Asphalt Co., 407 Hamilton Ave., $27,013; Porter Ave., etc., and Ralph Ave. from Macon St. to Atlantic Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $3,215 and $56,340 respectively; 17th Ave., etc., to Cranford Co., 52 9th St., $25,646; Ralph Ave. from Atlantic Ave. to Bergen St., to J. Meehan & Son, Cortland St., New York, $22,347. Noted Aug. 10.

N. Y., Buffalo—To Rock Asphalt & Constr. Co., Morgan Bldg., repaving Delevan Ave., 40 ft., $3,553; paving Tacoma St., 28 ft., $32,697, Ludington St., 26 ft., $27,-827, Freund St., 22 ft., $27,230, Queen St., 26 ft., $7,567, Newman Pl., 26 ft., $6,699, LaForce St., 26 ft., $12,071, Montclair Ave., 26 ft., $19,583, Roseville St., 26 ft., $11,653, Mendola St., 26 ft., $16,056, Parkside Ave., 30 ft., $14,469, Floss Ave., 24 ft., $19,306, Kingsley St., 26 ft., $16,522, Florida St., 26 ft., $10,850; to B. F. Spire, 24 Colonial Circle, Columbus Ave., 22 ft., $10,-150, Kirkpatrick St., 26 ft., $8,496, Laux St., 26 ft., $13,200; to H. P. Burgard Co., 1968 Fillmore Ave., Riley St., 28 ft., $81,-068, Columbus Ave., 28 ft., $24,495, River St., 42 ft., $33,460, all foregoing specification B asphalt on concrete; to J. M. Fahning, 460 LeRoy Ave., 10 in. tile sewer in Gratiot Ave., $4,941, 18 in. tile sewer in Heminway St., $1,555; to L. DiPasquale, Buffalo, 10 in. tile sewer in Elgas St., $1,355.

N. Y., East Rochester—Paving Lincoln Rd., East Elm St. and East Ave., asphalt, to J. Frederich Co., Rochester (street address not available), $90,000. Noted June 8.

N. Y., Eastwood—Bd. Village Trustees, Village Hall, concrete paving and concrete curbing various streets, 8 in. vitr. sewer in Lawson St., Homecraft and Glencove Rds., to J. C. Dempsey, 308 East Kennedy St., Syracuse, $19,408. Noted July 27.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on Buckley St., recurbing John St., and paving and laying sidewalks on Park Lane, to Welsh Bros. Contg. Co., 32 Queens St., $3,488, $4,560 and $38,571 respectively; paving Newtown Rd., 13th and Kingsland Aves., etc., to Cleveland Trinidad Paving Co., Flushing, $11,799, $14,304 and $36,334 respectively; 7th Ave., etc., to W. J. Fitzgerald, 547 West 45th St., New York, $12,-566; repairing sheet asphalt pavements in 1st and 2nd Wards, to Brusstar Constr. Co., Inc., Harlem River and 150th St., New York, $17,744. Noted Aug. 3.

Streets and Roads (Continued)

N. Y., Rochester—To T. Holohan Co., Rochester (street address not available), paving Ernst St., asphalt, $12,069, Arnett Blvd., asphalt $17,651, resurfacing Sumner Park, asphalt $10,938, Averill St., asphalt $23,781; to P. Alfonso Co., Rochester (street address not available), grading, laying sewers and walks on Inglewood Dr., $5,889.

N. Y., White Plains — Westchester Co., Court House, constructing North Bway., to Molloy & Murray Contg. Co., Inc., Saw Mill River Rd., Yonkers, $42,146. Noted July 27.

N. J., Bridgeton—Cumberland Co., paving 1 mi. Bridgeton Turnpike, concrete, to Tri-State Constr. Co., Bridgeton, $55,766.

N. J., Millville—Cumberland Co., Court House, Bridgeton, constructing State Highway Route 15, Sect. 4, West Main St., here, to Tri-State Constr. Co., Bridgeton, $55,797 or 106.9% of engineers estimate. Noted July 27.

N. J., Mt. Holly—Burlington Co., reconstructing road between Mt. Holly and Medford, concrete, to Union Paving Co., 30th and Locust Sts., Phila., $149,000. Noted July 27.

N. J., Woodbury—Gloucester Co., constructing Route 6, Sect. 14, in city of Woodbury, to Pub. Service Production Co., 80 Park Pl., Newark, $169,776. Noted July 20.

Pa., Catasauqua—For 40,000 sq.yd. concrete pavements, etc., to G. H. Hardner, Allentown, excav. $1 per cu.yd., concrete paving $2.18 per sq.yd., re-straightening stone curb $0.60 per lin.ft., etc. Noted July 27.

Pa., Erie—Asphalt pavements on Chestnut St., to Mayer Bros. Constr. Co., Erie, $22,541; Cranberry St. and Brown Ave., to M. A. McCormick Co., Erie, $21,380 and $6,289 respectively; sanitary sewer in Elmwood Ave. to V. Calabrese Co., Erie, $4,755; sanitary sewer in Front and Myrtle Sts., to F. G. Diefendorf, Erie, $479. Noted Aug. 10.

Pa., Pittsburgh—Paving and repaving Larimer Ave., Mt. Oliver and Plainfield Sts., to Booth & Flinn, Ltd., Forbes St., $26,796.

Pa., Washington — Repaving Jefferson Ave., Chestnut, Main and East Maiden Sts., brick on concrete, to J. Herd, Washington, $70,000. Contractor receiving bids on brick.

D. C., Wash.—Dist. Comrs., 509 Dist. Bldg., street paving to Cranford Paving Co., 2620 E St., N. W., $75,000. Noted Aug. 3.

Alabama—W. S. Keller, state highway engr., Montgomery, grading and gravel surfacing 18.754 mi. Guin-Winfield Rd., to Smith Co., 30 3rd Ave., Birmingham, $148,651. Noted Aug. 17.

Louisiana—State Hy. Comn., Redmond Bldg., Baton Rouge, and Police Jury of East Baton Rouge Parish, paving Bayou Sara Rd., Warrenite bitulithic to Southern Roads Co., Amer. Trust Bldg., Birmingham, Ala., $76,093.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 0.371 mi. Sect. "R" Cleveland-Buffalo Rd., Ashtabula Co., brick, to Pitt Constr. Co., Fulton Blk., Pittsburgh, $31,508. Noted Aug. 17.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Allen Co., Sect. "A" Delphos-Kalida Rd., .066 mi., bituminous macadam, tar, to G. B. Walthers, Lima, $12,247.

Ashland Co., Sect. "Loudonville" Columbus-Wooster Rd., 0.208 mi., brick, to G. B. Herring & Son, Mansfield, $16,100.

Franklin Co., Sect. "B" Columbus-Wooster Rd., 4.113 mi., waterbound macadam, to R. H. Shafer, Chamber of Commerce Bldg., Columbus, $69,587.

Franklin Co., Sect. "B" Columbus-Wooster Rd., 4.113 mi., brick, to R. H. Shafer, Chamber of Commerce Bldg., Columbus, $102,654.

Gallia Co., Sect. "A-1" Gallipolis-Crown City Rd., 0.86 mi., plain concrete, to Miller Bros., Gallipolis, $31,909.

Guernsey Co., Sect. "G-1" Cambridge-Newcomerstown Rd., 2.036 mi., rein.-con., to Bird, Springfield, $64,281.

Guernsey Co., Sect. "F-Liberty" Cambridge-Newcomerstown Rd., 1.672 mi., rein.-con., to C. Bird, Springfield, $51,406.

Jefferson Co., Sect. "K-1" Ohio River Rd., 2.157 mi., brick, to Brown & Allen, Ellsworth, $109,090.

Meigs Co., Sect. "L" Pomeroy-Athens Rd., 2.845 mi., rein.-con., to S. A. Palmer, Marietta, $75,495.

Morrow Co., Sect. "J" Marion-Galion Rd., 2.233 mi., bituminous macadam, asphalt, oil, to Marifield & Uncapher, Marion, $67,066.

Scioto Co., Sect. "R-2-a" Ohio River Rd., 3.139 mi., monolithic brick, to H. N. Snyder, Columbus (street address not available), $129,018.

Washington Co., Sect. "K-2" Marietta-Caldwell Rd., 4.88 mi., rein.-con., to Gaty Constr. Co., Central Natl. Bank Bldg., Columbus, $148,432.

Wayne Co., Sect. "P" Akron-Wooster Rd., 2.002 mi., monolithic brick, to Kavanaugh-DeNiro Co., Youngstown (street address not available), $58,307.

Seneca Co., Sect. "A-1" Columbus-Sandusky Rd., 0.69 mi., constructing concrete curb, to C. M. Gray, Waterville, $2,625.

Medina Co., Sect. "P" Ashland-Medina Rd., drainage structures, to Lodi Concrete Co., Lodi, $6,836. Noted Aug. 17.

O., Cleveland — Cuyahoga Co. paving Riverside Rd., brick, to Fisher & Williams, Lorain Rd., West Park, $125,843; Lorain Rd., brick, to Roehl Bros. Paving & Constr. Co., West 25th St. and Clark Ave., $405,023. Noted July 27.

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, curbing, laying water and sewer connections and paving 1,185 ft. Brunson Ave., and 1,487 ft. 4th Ave., both 26 ft., asphalt, to Pub. Wks. Constr. Co., 57 Wiggins Blk., Cincinnati, $12,946 and $21,699 respectively; 1,585 ft. Mill St., 26 ft., Mexican asphalt, to Franklin Asphalt Paving Co., 209 South High St., $16,217; 1,913 ft. 16th Ave., 26 ft., asphalt, to Knight & Wells, Columbus, $27,825; 299 ft. alley north of 9th Ave., 20 ft., and 884 ft. alley north of Maynard Ave., 15 ft., both concrete, to Federal Paving Co., Columbus, $1,915 and $4,690 respectively. Noted Aug. 10.

O., Upper Arlington (Columbus P. O.)—Grading, curbing and paving 1,700 ft. Andover Rd., 20 ft., 800 ft. Fairfax Rd., 20 ft. 2,100 ft. Yorkshire Rd., 20 ft., 3,000 ft. Tremont Rd., 26 ft. and 36 ft., all asphalt, to B. F. Patterson, 1214 Neil Ave., Columbus, $13,544, $5,323, $27,700 and $48,086 respectively. Noted Aug. 3.

O., Upper Arlington (Columbus P. O.)—To Cleveland Trinidad Paving Co., 510 Grand Theatre Bldg., Columbus, grading, curbing and paving with asphaltic concrete Oakland Ave. S., 680 ft. long, 50 ft. wide, 1,563 cu.yd. excav., 1,660 sq.yd. paving, 725 sq.yd. sidewalk and 1,304 lin.ft. curbs and gutters, $7,887. Merrick Rd., 1,050 ft. long, 60 ft. wide, 965 cu.yd. excav., 2,824 sq.yd. paving, 1,096 sq.yd. sidewalk and 2,110 lin.ft. curbs and gutters, $12,284; Broadview Ave., 1,018 ft. long, 60 ft. wide, 1,920 cu.yd. excav., 2,400 sq.yd. paving, 1,100 sq.yd. sidewalk, 1,964 lin.ft. curbs and gutters, $12,525. Ashland Ave., 1,018 ft. long, 50 ft. wide, 3,258 cu.yd. excav., 2,415 sq.yd. paving, 1,100 sq.yd. sidewalk, 1,970 lin.ft. curbs and gutters, $12,465. Oakland Ave. N., 1,175 ft. long, 50 ft. wide, 2,753 cu. yd. excav., 2,775 sq.yd. paving, 1,263 sq.yd. sidewalk and 2,264 lin.ft. curbs and gutters, $13,479. Elmer Ave., 952 ft. long, 50 ft. wide, 1,422 cu.yd. excav., 2,415 sq.yd. paving, 1,100 sq.yd. sidewalk, 1,970 lin.ft. curb and gutters, $11,087. Elmwood Ave., 1,018 ft. long, 50 ft. wide, 2,105 cu.yd. excav., 2,415 sq.yd. paving, 1,100 sq.yd. sidewalk, 1,970 lin.ft. curb and gutters, $11,600. 2nd Ave., 864 ft. long, 60 ft. wide, 4,148 cu.yd. excav., 2,262 sq.yd. paving, 925 sq.yd. sidewalk and 1,900 lin.ft. curbs and gutters, $12,400. Eastwood Ave., 570 ft. long, 50 ft. wide, 2,917 cu.yd. excav., 934 sq.yd. paving, 220 sq.yd. sidewalk and 785 lin.ft. curbs and gutters, $5,810. Virginia Ave., 500 ft. long, 50 ft. wide, 1,604 cu.yd. excav., 833 sq.yd. paving, 350 sq.yd. sidewalk and 650 lin.ft. curbs and gutters, $4,669. Oxley Rd., 3,612 ft. long, 50 ft. wide, 10,888 cu.yd. excav., 9,059 sq.yd. paving, 3,783 sq.yd. sidewalk and 6,660 lin.ft. curbs and gutters, $43,976.

Ind., Crown Point—Lake Co., gravel surfacing 18,400 ft. George Melcher Rd., and 6 mi. A. F. Brown Rd., both 16 ft., to Courtwright, Hiney & Wheeler, Crown Point, $35,888 and $48,000 respectively, engrs. est. $34,493 and $52,000; 3.8 mi. E. O. Sutton Rd., 18 ft., to H. Hathaway, West Creek Twp., Lowell, $34,900, engrs. est. $40,463; 3.9 mi. Lottes Rd., 18 ft., to H. P. Downey, 828 Calumet St., Hammond, $39,585, engrs. est. $40,460. Noted July 27.

Michigan — State Hy. Dept., Lansing, grading and surfacing 2.324 mi. State Trunk Line Rd. 14-23, Sect. B, Gratiot Co., to O. C. Raymont, Mt. Pleasant, $27,481; 3.73 mi. State Trunk Line Rd. 13-11, Sect. A, Charlevoix Co., to Regan-Baker Co., Kewadin, $26,217; 0.915 mi. State Trunk Line Rd. 87-2, Genesee Co., to Michigan Asphalt Paving Co., Flint, $19,914, plus cement, $5,409; State Trunk Line Rd. 65-1, Genesee Co., 1.042 mi. Sect. A, to L. A. and P .E. Moran, Howell, $19,618, plus cement, $9,711, 0.737 mi. Sect. B, to Michigan Asphalt Paving Co., Flint, $16,122, plus cement, $4,634; 3½ mi. Lambertville Rd., Monroe Co., to Thomas & O'Rourke, Toledo, O., (street address not available), $28,555; 5.3 mi. Assessment Dist. Rd. 27, Monroe Co., to Skeldon Eng. Co., 242 Water St., Toledo, O., $48,556; 13.267 mi. State Trunk Line Rd. 25-15, Sects. B and C, Chippewa Co., to S. J. Groves & Sons Co., 120 Manhattan Bldg., Duluth, Minn., 124,012 cu.yd. excav., $0.35, 89.2 cu.yd. 1:2:4 concrete $24, 46.6 cu.yd. 1:3:6 concrete $22, etc., total $68,623; State Trunk Line Rd. 48-7, 2 mi. Sect. A, 2.156 mi. Sect. B, Chippewa Co., Sect. A, to Fogelsonger & Madison, St. Ignace, 3,837 cu.yd. excav. $0.53, 3.7 cu.yd. 1:2:4 concrete $21. 18,774 sq.yd. waetrbound macadam $1, etc., total $20,984, Sect. B to J. Cottle, Rudyard. 17,347 cu.yd. excav. $0.40, 9.8 cu.yd. 1:2:4 concrete $20, 20,211 sq.yd. waterbound macadam $1.15, etc., total $32,179.

Michigan — State Hy. Dept., Lansing, grading and surfacing 8.283 mi. State Trunk Line Rd. 89-4, Allegan Co., to Gabel & Gabel, South Haven, incl. 50,576 cu.yd. excav. $0.38, 157.4 cu.yd. 1:2:4 concrete $13, 79.8 cu.yd. 1:2½:5 concrete $12, 160 cu.yd. 1:3:6 concrete $11. $77,597 sq.yd. gravel $0.61, total $73,650. Noted Aug. 3.

Michigan — State Hy. Dept., Lansing, grading and surfacing 5.383 mi. Federal Aid Project 84, Monroe Co., to Bartling & Dull, Pontiac, incl. 22,608 cu.yd. excav. $0.75, 167.7 cu.yd. 1:2:4 concrete $15, 262.8 cu.yd. 1:3:6 concrete $17, 56,093 sq.yd. rein.-con. pavement $1.78, total $125,999 plus state cement, $59,142.

Michigan—State Highway Dept., Lansing, grading and surfacing 2.564 mi. State Trunk Line Rd. 13-16, Kent Co., to Whiting Constr. Co., Grand Rapids, incl. 15,491 cu. yd. excav. $0.64, 47.4 cu.yd. 1:2:4 and 87 cu.yd. 1:3:6 concrete $13, 27,072 sq.yd. concrete pavement $1.26, total $49.137 plus state cement $23,425. Noted Aug. 10.

Wis., Milwaukee—Paving Dakota St. from Pine to Lenox Sts., asphalt, to White Constr. Co., 68 Wisconsin St., $3,464; Orchard Pl. from 28th to 31st Aves., concrete curb and gutter only, to Dean Constr. Co., 382 East North Ave., $1,876; Wells St. from 28th to 33rd Sts., asphalt, to Badger Constr. Co., 97 Wisconsin St., $22,541; concrete paving 11 alleys, to A. E. Retzlaff, 949 4th St., $24,122; 3 alleys, to S. W. Tallmadge, 445 Milwaukee St., $3,374; 3 alleys to J. Schweitzer, 699 5th St., $6,269; 2 alleys to Bodeman Constr. Co., 691 48th St., $5,358; 6 alleys, to Czerwinski Constr. Co., 376 16th Ave., $22,540; 7 alleys, to F. Banaszak, 1335 4th Ave., $13,484; 10 alleys to Ryback & Sadowski, 1092 2nd Ave., $28,318; 1 alley to J. Bluhm, 164 Burliegh St., $3,665.

Wis., Milwaukee—Milwaukee Co. paving, etc., Oklahoma Ave. from Howell Ave. to Old Chicago Rd., 6,800 sq.yd. asphalt, to White Constr. Co., 68 Wisconsin St., $34,200. Noted Aug. 3.

Minnesota—State Hy. Dept., St. Paul, 11.5 mi. State Project 9-29, Federal Aid Project 289, Houston and Fillmore Counties, grading to J. J. and M. S. Mergens, 403 Kasota Bldg., Minneapolis, $76,014. spillway and culverts to Lyle Culvert and Road Equipment Co., 171 27th Ave. S. E., 5 bridges to Funk & Rasmussen, LaCrosse, Wis., $15,280, 3 bridges to C. H. Vickerman, Caledonia, $6,892.

State Project 11-21, 10 mi., Roseau Co., 4 bridges to Valley Constr. Co., Stephen. $12,730, pipe material to Fay Sand & Gravel Co., Duluth, $1,710, (grading and culvert contracts pending).

State Project 7-28, Federal Aid Project 233, 2 mi., Brown and Nicollet Counties, grading to Winston Bros. Co., 801 Globe Bldg., Minneapolis, $37,573, culverts to Sanitor Constr. Co., 3050 4th Ave. S., Minneapolis, $5,251. Pipe bids rejected.

State Project 3-30, Federal Aid Project 280, 17 mi., Itasca Co., grading to E . F. Remer, 315 Sellers St., Hibbing, $117,835. Culvert and pipe bids rejected.

State Project 12-21, Federal Aid Project 256, 8 mi., Carver Co., grading to J. Leach, Lakeville, $31,643, culverts to Wessel Bros., Guardian Life Bldg., St. Paul, $9,228, pipe to Elk River Concrete Products Co., Elk River, $1,346.

State Project 42-21, Olmsted Co., 6 mi., grading to Cameron, Joyce & Co., Keokuk, Ia., $39,278, culverts to A. Beckman Co., Lake City, $13,023, pipe to Klauer Mfg. Co., 9th and Washington Sts., Dubuque, Ia., $755.

State Project 53-23, Dakota Co., to Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, $29,520, culverts to Lyle Culvert & Road Equipment Co., 171 27th Ave. S. E., Minneapolis, $573.

State Project 7-30, Federal Aid Project 269, 5 mi., Waseca Co., grading to J.

Streets and Roads (Continued)

Brown Constr. Co., Madison Lake, $14,622, culverts to Wessel Bros., Guardian Life Bldg., St. Paul, $3,516, bridge to Sullivan & Schaub, Madison Lake, $3,575.

State Project 15-29, Watonwan Co., 10 mi., grading to Nelson, Fulton & Nelson, 1st Natl.-Soo Line Bldg., Minneapolis, $9,260, graveling to Minnesota Rural Express Co., Montevideo, $14,973, bridge to Iowa Bridge Co., 317 McKnight Bldg., Minneapolis, $5,740.

State Project 4-25, Beltrami Co., 1.5 mi., grading to C. W. Clark, Puposky, $11,078, graveling to M. Barrett, St. Cloud, $4,282, bridge to H. F. Garbisch, Austin, $7,138, culverts to P. Halupzoh, Tenstrike, $1,940. Noted Aug. 10.

Minnesota — State Hy. Dept., St. Paul, gravel surfacing 24,000 cu.yd. State Project 9-23, Jackson and Nobles Counties, Div. A, to H. Einung, Jasper, $11,494, Div. C, to Merrick & Ackmann, Sleepy Eye, $12,339; 15,600 cu.yd. State Project 3-32, Wilkin Co. to Clements, Schottenbauer & Marvin, Clements, $27,713; 10,426 cu.yd. State Project 9-30, Mower Co., to Nortnwestern Constr. Co., 2214 Sheridan Ave. N., Minneapolis, $14,627; 8,300 cu.yd. State Project 8-37, Federal Aid Project 94, and 4,000 cu. yd. State Project 8-36, Polk Co., to Cramer Constr. Co., Pioneer Bldg., St. Paul, $14,207 and $7,652 respectively; 10,300 cu.yd. State Aid Project 8-38, Federal Aid Project 204, Itasca Co., to Cuyuna Range Constr. Co., Ironton, $17,716. Noted July 13.

Kan., Iola—Allen Co. paving 0.992 mi. road from here to Ft. Scott, Sect. A, Project 128, 18 ft., concrete, to Fry Bros., Iola, $31,730.

N. D., Mott—Grading and building culverts on 11 mi. State Highway 37, north and west of Regent; grading to Lindsay & Gillen, Mott, $20,055, culverts to Western Steel Products Co., New Duluth, Minn., $6,338.

Missouri—State Hy. Dept. at div. office Bloomfield, 4.256 mi. road from Cairo to Poplar Bluff, 24 ft., Federal Aid Project 179, Stoddard Co., to Novaculite Constr. Co., Marion, Ill., $17,780; 14.841 mi. road from Advance northeast and south, 24 ft., Federal Aid Project 187, Stoddard Co., to Service Constr. Co., Poplar Bluff, $91,059. Noted Aug. 10 and 17.

Missouri—State Hy. Dept. at div. office Bowling Green, 0.25 mi. road from Peno north, 24 ft., Federal Aid Project 188, Pike Co., to Riley & Bailey Constr. Co., International Life Bldg., St. Louis, $20,499. Noted Aug. 10.

Missouri—State Hy. Dept. at div. office Carthage, 1.393 mi. road from Carthage to Springfield, 24 ft., Federal Aid Project 168 A, Jasper Co., to Carterville Constr. Co., Cartherville, $36,679. Noted Aug. 17.

Missouri—State Hy. Dept. at div. office Lebanon, 5.075 mi. road from Springfield to St. Louis, 24 ft., Federal Aid Project 89 B, Laclede Co., to Case & Killian, Marshfield, $31,259; 4.788 mi. road from Lebanon eastward and westward, 24 ft., State Aid Project 20.179, Laclede Co., to Davis Constr. Co., Imboden, Ark., $19,778. Noted Aug. 17.

Missouri—State Hy. Dept. at div. office Lexington, 4.694 mi. road east and west from Higginsville, 24 ft., State Aid Project 20.164, Lafayette Co., to E. Jucksch, Oswego, Kan., $21,898. Noted Aug. 17.

Missouri—State Hy. Dept. at div. office Moberly, 0.678 mi. road from Moberly to Huntsville, 24 ft., Federal Aid Project 186, Randolph Co., to Lynch McDonald Constr. Co., Moberly, $24,628. Noted Aug. 10.

Missouri—State Hy. Dept. at div. office Poplar Bluff, 8.435 mi. road from Poplar Bluff southwestwardly, 24 ft., Federal Aid Project 58 C, Butler Co., 11,685 cu.yd. earth excav., 49,460 cu.yd. borrow, 98.9 cu.yd. concrete masonry, 59,618 sq.yd. specification C gravel pavement, 12 ft., etc. also 7.366 mi. road from Poplar Bluff southwestwardly, 24 ft., Federal Aid Project 58 A, 32,170 cu.yd. earth excav., 83.1 cu.yd. concrete masonry, 52,727 sq.yd. specification C gravel pavement, 12 ft., etc., to Little & Dean, Paris, Tenn., $60,665 and $31,922 respectively.

Missouri—State Hy. Dept. at div. office Shelbyville, 4.529 mi. road from Shelbyville northward and southward, 24 ft., State Aid Propect 20.129, Shelby Co., to H. J. Dungan, Shelbina, $17,183. Noted Aug. 10.

Mo., Kansas City—Paving 29th St., plain concrete, to Halpin & Boyle Constr. Co., 709 Ry. Exch., $2.71 per sq.yd., total $25,724; resurfacing 15th St. from Euclid Ave. to Bates St., to W. H. Knight Constr. Co., Kansas City (street address not available) $1.49 per sq.yd., total $43,389.

Tex., Austin—Travis Co. surfacing and topping 9.15 mi. Highway 20, from Manor to Bastrop Co. line, 16 ft., to Haden & Austin, Hill and Marsh Sts., Houston, $40,150. Engrs. est. $45,000 incl. 10% for engineering and contingencies. Noted July 20.

Tex., Cameron—Milam Co. grading, gravel surfacing, etc., 17.94 mi. State Highway 36, Federal Aid Project 252, to Thomas & Ratcliff, Rogers, $80,743. Noted Aug. 10.

Tex., Eldorado—Schleicher Co. topping 11.43 mi. Highway 4, Federal Aid Project 135, 16 ft., to A. E. Morgan, Dallas, (street address not available), $26,360; crushed stone to Schleicher Co., c/o C. A. Womack, co. judge, Eldorado, $7,297. Noted July 20.

Tex., Farmersville—Collin Co. paving various streets, 19,841 sq.yd. vertical fibre brick on concrete, 1,193 lin.ft. combined curb and gutter, to Plains Paving Co., 920 Amer. Natl. Bank Bldg., Wichita Falls, $35,610. Noted July 13.

Tex., Georgetown—Williamson Co. grading, gravel surfacing, etc., 11.35 mi. Highway 43-A, to H. Kyle, Hutto, $76,596, engrs. est. $84,256, incl. 10% for engineering and contingencies; grading shale and gravel surfacing 15.57 mi. State Highway 2 from Georgetown to north line of Precinct 1, to McDonald & Evans, Austin, (street address not available), $51,434, engrs. est. $63,750 incl. incl. 10% for engineering and contingencies.

Tex., Lufkin—Angeline Co. to Womack Constr. Co., Sherman, grading, gravel surfacing, and bituminous topping 4.19 mi. Highway 35 from Polk Co. north, 16 ft., $49,864; 5.47 mi. Highway 35 from point 5.1 mi. south of here toward Polk Co. line, 16 ft., $75,020; 5.09 mi. State Highway 35 from here south, Federal Aid Project 271, $48,348. All gravel furnished by county. Noted July 20.

Tex., San Antonio—Bexar Co. grading, surfacing, etc., 2.23 mi. Highway 9, Pearsall Rd., (a) grading roadway surfacing with gravel, hauling, spreading and rolling, (b) 1 in. bituminous topping, (c) rein.-con. drainage structures, to C. M. Kelly, 503 Barrett Pl., (a) $16,645; Uvalde Rock Asphalt Co., 1111-14 Natl. Bank Bldg., (b) $13,604; W. W. Lehr, San Antonio, (c) $14,026. Noted July 27.

Tex., Waco—McLennan Co. grading, surfacing and topping 11.32 mi. Highway 2-B through Mart to county line, State Aid Project 310, 16 ft., 840 cu.yd. concrete, 106,474 cu.yd. earth excav., 16,150 gal. asphalt, 2,074 sq.yd. reinforcing, 840 cu.yd. concrete, 23,028 cu.yd. crushed rock, 57,991 lb. reinforcing steel, also 589 mi. Highway 6 from Elm Mott north 16 ft., 10,192 cu.yd. borrow, 23,538 cu.yd. roadway, 370 cu.yd. concrete, 25,928 ga. bituminous material, 25,468 lb. reinforcing, 1,368 cu.yd. cover material, 2,162 cu.yd. crushed rock, 11,628, cu.yd. gravel, to Wear & Thomas, Rogers, $164,763 and $58,834 respectively. Engrs. est. $220,000 and $63,700 respectively, incl. 10% for engineering and contingencies.

Colorado—State Hy. Dept., Denver, gravel surfacing road beginning at eastern city limits of Canon City and extending easterly through Florence State Aid Project 165, to G. A. Allen, Morrison, $63,343, engrs. est. $78,892; gravel surfacing 5.686 mi. road beginning ½ mi. west of Granada and extending westerly, State Aid Project 168 A, to Standard Eng. Co., E & C Bldg., Denver, $36,573, engrs. est. $47,620; gravel surfacing 3.144 mi. road beginning 4 mi. east of Grand Junction and extending easterly towards Palisades, State Aid Project 208 A, to F. L. Hoffman, Mining Exch. Bldg., Denver, $30,587, engrs. est. $33,340; concrete paving 8.228 mi. road beginning north of Brighton and extending northward through Ft. Lupton toward Platteville, State Aid Project 226 A, to White & Johnson, 521 Chamber Commerce Bldg., Denver, $219,212, engrs. est. $249,987; sand clay surfacing 3.995 mi. road beginning east of Peyton and extending easterly through Callien, State Project 532, also concrete paving 2.938 mi. road beginning 1½ mi. east of Pueblo and extending east on Sante Fe Trail, State Aid Project 217, to E. Lindsey, 521 Chamber Commerce Bldg., Denver, $15,739 and $85,605 respectively, engrs. est. $20,174 and $85,223; rubble cement flume and culverts on State Highway 54 near Nighthawk, Gilpin Co., to Acme Bridge Co., 1319 Champa St., Denver, $8,255, engrs. est. $11,088.

Ariz., Florence—Bd. Supervs. Pinal Co., grading, gravel surfacing and building structures on 5.1929 mi. Florence-Superior Highway, Sect. F, Federal Aid Project 23, to Goodman & Merrill, St. David, $28,965. Noted Aug. 3.

Ariz., Phoenix—Maricopa Co. Highway Comn., paving 8 mi. Glendale-Marinette Rd., 81,193 sq.yd. concrete, 18,800 cu.yd. excav., 1,245 cu.yd. structural concrete and 22,300 lb. reinforcing, to Twohy Bros. Co., 318 North Central Ave., $211,510.

California—State Hy. Comn., Sacramento, 10.43 mi. highway between Quail Lake and northerly boundary, Los Angeles Co., to Southwest Paving Co., Washington Bldg., Los Angeles, $173,048, engrs. est. $234,614, plus materials furnished by State, $75,596, total $248,643; grading 4.56 mi. highway between Hopland and El Robles, Mendocino Co., to Murdock Bros., Oakland and Ukiah, $62,284, engrs. est. $66,329, plus materials furnished by State, $1,398, total $63,682; surfacing with ashaltic concrete 0.83 mi. between Arcola School and Borden Station, Madera Co., to Federal Constr. Co., Call Bldg., San Francisco, $13,860, engrs. est. $15,400; grading 11.66 mi. highway between Fish Springs School and southeast corner, Sect. 33 T. 8 S., R. 33 W., M. D. B. & M., Inyo Co., to Redmond, Page & Pond, Alameda, $67,334, engrs. est. $64,036, plus materials furnished by State $4,833, total $72,166; 2.02 mi. highway through Banning, Riverside Co., to F. W. Teschke, Los Angeles, (street addres not available), $25,052, engrs. est. $30,167, plus materials furnished by State $15,042, total $40,095. Noted July 20, Aug. 10 and 17.

Calif., Bakersfield—For 5,028 lin.ft. Road 419, 94,600 sq.ft. of 8 in. concrete, to Kaufield & Tompkins, 2225 Fresno St., Fresno, $0.445.

Calif., Modesto — Improving portions of Morris, Castle and Auburn Sts., to Standard Paving Co., 1411 9th St., 168,200 sq.ft. grading $0.05, 154,809 sq.ft. paving 2½ in. asphaltic concrete base with 1½ in. warrenite-bitulithic surface $0.17, 13,390 sq.ft. concrete gutter $0.20, 8,325 sq.ft. concrete curb $0.70. Noted July 6.

Calif., Sacramento—Sacramento Co. will pave 1 mi. Antelope Rd., and 5,936 lin.ft. San Juan lateral, asphaltic macadam, by day labor. No bids received on Aug. 7. D. Butler, co. engr. Noted July 27.

Calif., San Luis Obispo—Improving portion Aliva Rd., to J. L. Conner, Nipomo, 5,500 cu.yd. excav., incl. borrow $0.75 per yd., 8,296 ft. shaping and rolling road bed $0.15, 2,049 yd. Class A concrete pavement $5.15 per yd. 7,500 lb. reinforcing $0.01 per lb., total $29,135. Noted July 27.

Calif., San Rafael—Marin Co., paving San Rafael and Olema Rd. through Fairfax, and portion of Fairfax and Bolinas Rd., to S. P. Brownlee, San Rafael, $27,400. Noted July 29.

Calif., Woodland—Yolo Co. will extend Main St., eastward, by day labor under supervision of A. Proctor, co. engr. Work involves 1,650 cu.yd. unclassified earthwork, 84,900 sq.ft. 6 in. cement concrete pavement, etc.

Que., Montreal—Paving St. Joseph Blvd. from Henri Julien to Papineau Aves., 4,312 ft. asphalt, 50 ft., to Sicily Asphaltum Paving Co., 60 St. Viateur St., $120,271.

Ont., Hensall — Concrete pavements on Main St., to Hamilton Constr. Co., Hamilton, (street address not available). Engrs. est. $38,000. Noted May 25.

Ont., Oakville—P. A. Bath, council clk., concrete pavements, curbs and gutters, to King Eng. Co., Oakville. Engrs. est. $35,000. Noted July 13.

Ont., Thorold—Concrete pavement and curbs on Chapel St., to Somerville & Dillworth, 22 Cross St., Welland. Engrs. est. $28,000.

British Columbia — Dept., Pub. Wks. Victoria, paving 2 mi. Yale Rd. from McLellan Rd. to Murrayville, to E. J. Palmer & Co., 1108 Vancouver Blk., Vancouver, $60,000. Government will supply cement.

Industrial Works

PROPOSED WORK

R. I., Providence—United Electric Railways Co., Union Station, plans 1 and 2 story, 88 x 250 ft., brick and concrete garage and service plant, Melrose St. $100,000. Private plans.

Conn., South Norwalk—J. and J. Cash, Ltd., Chestnut St., soon lets contract 1½ story, 60 x 132 ft., brick and steel addition to weave shed. $40,000. Private plans.

N. Y., Brooklyn—Brooklyn Edison Co., 560 Pearl St., having plans prepared by T. E. Murray, Inc., archts., 55 Duane St., New York, new power plant, 400,000 kw. capacity, Marshall St. and Hudson Ave.

N. Y., Buffalo—Jewett & Co., Military Rd., plans to rebuild factory, Military Rd. $150,000. S. S. Jewett, 563 West Ferry St., pres. Architect not announced.

N. Y., Chautauqua—Chautauqua Institution, The Colonnade, plans rebuilding garage destroyed by fire. $50,000. A. E. Bestor, pres. Architect not announced. S. C. Arnold, Colonnade Bldg., lessee.

N. Y., Dunkirk—Skelton Shovel Co., c/o Chamber of Commerce plans factory. $125,000. Architect not announced.

Industrial Works (Continued)

N. Y., Fredonia—Red Wing Co., Inc., 27 Gilsan St., plans rebuilding concrete warehouse, recently destroyed by fire. $130,000.

N. Y., Jamestown—S. B. Robbins, 303 Lafayette St., plans modern garage and service station, North Main St. $45,000 or over. Architect not selected.

N. Y., Long Island City — Natl. Liquid Bleach Co., 18 Purvis St., plans brick, steel and rein.-con. factory, plain foundation, Foster Ave. between Honeywell and Buckley Sts. $500,000.

N. Y., Rochester—Haverstick & Co., 66 Exchange St., plan concrete warehouse, Ford St. $40,000. Architect not announced.

Pa., Ambridge—Standard Seamless Tube Co., plans 1 story, 80 x 480 ft. steel plant. Private plans.

Pa., Castanea—Lock Haven Electric Light & Power Co., Lock Haven, plans new power house, here. $200,000.

Pa., Columbia—Peerless Folding Box & Crate Co., c/o F. S. Sheeman, Swank Annex, Johnstown, plans 1 story, 50 x 200 ft. concrete, brick and steel factory. Architect not selected.

Pa., Glenshaw—Ball Chemical Co., Fulton Blk., Pittsburgh, having plans prepared by L. B. Duff, engr., 712 Magee Bldg., Pittsburgh, 2 story, 64 x 113 ft. rein.-con. and tile factory and storage building, Butler Plank Rd. $50,000.

Pa., Greenville—H. E. McConnell, representing others, in connection with local Chamber of Commerce purchased 35 acre site and plans to build steel plant incl. one 500 ton blast furnace, four 60 ton open hearths, one 10 ton open hearth, steel foundry, four rolling mills, cold drawing mill. $2,500,000. Architect not announced.

Pa., Johnstown—J. Walling & Co., 518 Washington St., having plans prepared by S. E. Dickey & Co., archts., Johnstown, 3 story, 74 x 132 ft. concrete and steel garage, Railroad St. $150,000.

Pa., Koppel—Koppel Car Repair Co. plans large dry house with storage tracks (capacity 200 cars), Hoytdale Rd. Engineer not announced.

Pa., New Kensington—Natl. Auto Service Co. plans 1 story, 60 x 70 ft. and 25 x 80 ft. garage and service station, 5th St. $50,000.

Pa., Oil City—Natl. Transit Pump & Machine Co., Oil City, plans 80 x 200 ft. brick and steel foundry. Private plans.

Pa., Pittsburgh—Air Reduction Co., 342 Madison Ave., New York, plans plant on Neville Island, here. $100,000. Private plans.

Pa., Pittsburgh—J. R. McNary, 435 6th Ave., is organizing the Neville Twp. Light Co. and the Kennedy Twp. Light Co. and plans to install and operate electric light and power plants in these townships.

Pa., Scranton—Bd. Control plans power house in connection with institution buildings, Gibson St. and Adams Ave. $61,000. J. H. Williams, 425 Washington Ave., pres. Engineer not announced.

Pa., Starbreck (Warren P. O.)—Warren Steel Car Co. plans 1 story, 90 x 260 ft. brick and steel factory. $75,000. Private plans.

La., New Orleans — Bd. Port Comrs., Canal St., plans 3 story, 140 x 325 ft. grain sacking plant adjoining warehouse, steel and corrugated iron. $180,000.

Tenn., Knoxville—Mahan-Kerr Motor Co., 719-921 South Gay St., plans 3 story, 133 x 159 ft., garage and salesroom, Cumberland and Market Sts. $150,000. Architect not selected.

Tenn., Memphis—Memphis Sash & Door Co., 673 South Dudley St., plans 3 story, 200 x 300 ft., brick factory, Railroad St. and Roland Ave. Architect not announced.

O., Cleveland—Lincoln Heights Dairy Co., c/o J. Terencz, 755 Starkweather Ave., had plans prepared by W. Markowitz, archt., 1836 Euclid Ave., 2 story, 35 x 78 ft., brick and concrete factory, 2594 Professor Ave. $40,000.

O., Cleveland—Pollock-Davis Co., 11628 Euclid Ave., had plans prepared by H. P. Whitworth, archt., 526 Hickox Bldg., 1 story, 72 x 74 ft., brick and steel garage. $540,000.

O., Cleveland—G. Rackle & Sons Co., Stop 5-A.B.C. Line, had plans prepared 1 story, 50 x 120 ft. factory, concrete blocks and timber, McCracken Rd. $40,000. Private plans.

O., Cleveland—See "Buildings."

O., Cleveland—Woodworth Road Land Co., c/o W. S. Ferguson, archt., 1900 Euclid Ave., plans 6 story, brick, steel and concrete warehouse, East 152nd St., along tracks of New York, Chicago and St. Louis Ry. $150,000.

Mich., Battle Creek—Rich Steel Products Co., Springfield Pl., plans 3 or 4 story, brick and steel factory, Springfield Pl. $500,000. Architect not selected.

Ill., Chicago—A. Epstein, archt., 2007 West Pershing Rd., preparing plans 2 story, 100 x 107 ft. canning plant, rein.-con., brick and steel, 47th St. near Kedzie Ave. $110,000. Owner's name withheld.

Ill., Chicago—P. Gerhardt, archt., 64 West Randolph St., soon receives bids 3 story, 100 x 125 ft. printing plant, rein.-con., brick and steel, 210-14 South Peoria St., for Chicago Evening American, 325 West Madison St. $175,000.

Ill., Hyde Park (Chicago P. O.)—J. L. McConnell, archt., 111 West Jackson Blvd., preparing plans 2 story, 100 x 140 ft., rein.-con., brick and steel garage. $80,000. Owner's name withheld.

Wis., Fond du Lac—B. E. Mehner, archt., Main St., preparing plans 3 story, 42 x 180 ft., brick, tile and timber factory, plain foundation. $60,000. Owner's name withheld.

Wis., Milwaukee — Milwaukee Woven Wire Wks., 3014 Clarke St., having plans prepared 3 story, 130 x 140 ft., brick and timber warehouse, plain foundation, 30th and Clarke Sts. $80,000. Private plans.

Wis., Neenah — Jaeger-Wheeler Co., 417 2nd St., Menasha, having plans prepared by E. A. Wettengel, archt., 578 Pierce Ave., Appleton, 2 story, 60 x 120 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation. $50,000.

Wis., Platteville—E. H. Johnson plans 1 and 2 story, 60 x 150 ft., brick, rein.-con. and steel factory, plain foundation. $60,000 Architect not selected.

Wis., Racine—Horlick Malted Milk Co., Horlicksville, had plans prepared by L. Lehle, archt., 3810 Bway., Chicago, 5 story, 123 x 123 ft., rein.-con. and brick factory, plain foundation. $200,000.

Wis., Waukesha — Waukesha Fdry. Co., Lincoln Ave., plans 2 and 3 story, 50 x 195 ft., brick and steel factory, plain foundation, Lincoln Ave. $50,000. Architect not selected.

Minn., Albert Lee — Central Clay Wks., plans concrete and brick factory to replace plant recently destroyed by fire. $40,000. A. L. Severin, mgr. Architect not selected.

Neb., McCook — Chicago, Burlington & Quincy R. R., 547 West Jackson Blvd., Chicago, soon takes bids 2 story, 40 x 65 ft. rein.-con., stone and steel power plant incl. 7 x 185 ft. concrete stack, here. $85,000. Private plans. Noted May 18.

Mo., Kennett — Caruthersville Light & Power Co. plans additions and improvements to power plant. $40,000. Engineer not announced.

Ark., Hot Sprigs—Missouri Lumber Co., Gaines Ave., plans to rebuild lumber plant recently destroyed by fire. $75,000. Engineer not announced.

Tex., Sabine — Magnolia Petroleum Co. plans to rebuild that portion of distributing plant destroyed by fire. $170,000. Architect not announced.

Okla., Duncan—Pauline Oil and Gas Co., Duncan, plans modern refinery, 700 bbl. daily capacity, about 6 mi. from here. $65,000. Architect not announced.

Okla., Madill—Woody Motor Co., Madill, plans to rebuild garage and service station, recently destroyed by fire. $60,000. Architect not announced.

Calif., Oakland—Hebern Electric Code, Inc., Bank of Italy Bldg., had plans prepared by Reed & Corlett, archts., Oakland Bank of Savings Bldg., Oakland, 3 story, steel frame, rein.-con. factory, Harrison St. between 8th and 9th Sts. $200,000.

Que., Montreal—Burton Brewery Co. of Canada, Ltd., Montreal, plans 3 story, 100 x 300 ft. brewery, St. Denis and De Valier Sts. $400,000.

Que., Montreal—H. Morgan & Co., Beaver Hall Hill, plans 4 story., 50 x 150 ft. brick and steel factory, St. Catherine St. W. $150,000. Munn & Shea, Cote St., engrs.

Ont., Brantford—See "Miscellaneous."

Ont., Hamilton—Libbey Owens Sheet Glass Co. plans plant. $250,000. Private plans.

Ont., Windsor—Gray Dort Motors, Ltd., 1 William St. N., Chatham, plans new factory here. $100,000. Private plans.

BIDS DESIRED

Pa., Phila.—Sept. 1, by Standard Provision Co., 212 North Front St., 3 story, 60 x 170 ft. and 60 x 90 ft. rein.-con. packing plant, plain foundation, Callowhill and Willow Aves. $150,000. Private plans.

O., Cleveland—Christian, Schwarzenberg & Gaede, archts., 1900 Euclid Ave., taking bids 1 story, brick, steel and concrete factory addition, 1749 East 22nd St., for Wolf Envelope Co. N. J. Dreyfoos, pres. Noted Aug. 17.

O., Cleveland—D. D. Wessels & Son, 1785 East 17th St., taking bids and opens same about Aug. 30, 2 story, 100 x 102 ft., brick and steel factory, plain foundation, 2009 Oregon Ave. $60,000. Private plans.

O., Cleveland—A. Sogg, archt., 319 Hippodrome Annex, taking bids 2 story, 35 x 50 ft., brick and steel factory and store, East 105th St. and Superior Ave., 3 HRDL 9A 105th St. and Superior Ave., for J. O. Stein, (real estate), 822 Leader-News Bldg., Hoffman Candy Co., c/o architect, lessee $40,000.

O., Middletown—Gardner Harvey Paper Co., West 3rd St., taking bids 1 story, 200 x 396 ft. plant, brick and steel, sawtooth construction. T. H. Scott & Son, Middletown, archts.

Mich., Saginaw—D. H. Burnham & Co., archts., 209 South La Salle St., Chicago, taking bids, 5 story, 50 x 120 ft. warehouse, mill construction, for Morley Bros., 115-119 North Washington St. $250,000.

Wis., Madison—J. R. and E. J. Law, archts., Strand Bldg., receiving bids 1 story, 60 x 182 ft., factory, rein.-con., brick and steel, Charter St., for J. Feldman Paper Box Co., 515 Regent St. $60,000. Noted Aug. 10.

Wis., Milwaukee—Seaman Body Corp., 1732 Richards St., taking bids 5 story, 123 x 420 ft. and 100 x 225 ft. plant, brick and timber, plain foundation, Richards St. Private plans.

Wis., Oshkosh—Winnebago Co. Road & Bridge Comn., c/o O. Laabs, chn., 535 7th St., taking bids 1 story, 58 x 120 ft., brick and concrete, garage, plain foundation, Wisconsin Ave. $40,000. Private plans.

Calif., Santa Rosa — B. Hildebrand archt., Santa Rosa, receiving bids 2 story 75 x 150 ft. rein.-con. garage, for Tilden & Tilden. $40,000.

CONTRACTS AWARDED

Me., Sanford—Sanford Mills, 4 story, 85 x 155 ft. rein.-con. finishing building, and 6 story addition to mill, to Turner Constr. Co., 178 Tremont St., Boston, Mass. Archts. est. $175,000.

Mass., Boston—Fisher Hill Co., 18 Tremont St., will build 3 story, 80 x 170 ft. brick and rein.-con. garage and service station, plain foundation, Commonwealth Ave., by day labor. $100,000. H. F. Bryant, 334 Washington St., Brookline, archt.

Mass., Holyoke—Holyoke Supply Co., 210 Race St., 5 story, brick and steel addition to plant, to P. J. Kennedy & Co., Inc., 464 Maple St. Archts. est. $50,000.

Mass., Southbridge—Hamilton Woolen Co., Mill St., 1 story, 100 x 120 ft. steel and concrete addition to plant, West St., to A. O. Boyer, 108 Hamilton St. Archts. est. $40,000. Noted June 22.

R. I., Pawtucket—Solway Dyeing & Textile Co., Ingrahamville, 1 story, 70 x 140 ft. brick and steel addition to plant, to F. G. Rowley Co., 260 Central St. Archts. est. $40,000.

R. I., Woonsocket—French Worsted Co., Mill St., 1 story, brick and timber addition, also rein.-con. coal pocket and trestle, to J. W. Bishop Co., 109 Foster St., Worcester, Mass. Archts. est. $40,000.

Conn., East Hartford—Colonial Auto Co., 1279 Main St., Hartford, 1 and 2 story, brick and steel garage, service station, and showrooms, Connecticut Blvd., to Austin Co., 217 Bway., New York City. Archts. est. $40,000.

Conn., Hamden—Safety Car Heating & Lighting Co., Dixwell Ave., 1 story, 106 x 115 ft. and 100 x 195 ft., brick and steel additions to plant; also large rein.-con. tank, to Stovel & Brinkerhoff, 136 Liberty St., New York, $100,000. Noted July 20.

N. Y., Buffalo—Lautz Marble Co., 861 Main St., 1 story, 90 x 475 ft. factory, brick, steel and concrete, to Turner Constr. Co., 11 Goodell St. Archts. est. $150,000.

N. Y., New York—Republic Storage Co., Inc., 45th St. and 12th Ave., brick, steel and concrete warehouse, plain foundation, 57th St. and 12th Ave., to Industrial Eng. Co., 30 Church St. Archts. est. $250,000. Noted Aug. 10.

N. Y., New York—Street & Smith, 79 7th Ave., brick, steel and concrete printing plant, plain foundation, 147 West 15th St., to Fountain & Choate, 110 East 23rd St. Archts. est. $150,000. Noted July 6.

Industrial Works (Continued)

N. Y., Wende—See "Buildings."

N. J., Jersey City—Standard Milling Co., 49 Wall St., New York, 6 story, rein.-con. and steel warehouse, concrete pile foundation, Pavonia Ave., here, to Lynch Constr. Co., 52 Vanderbilt Ave., New York. Archts. est. $2,000,000.

Pa., Arnold—Amer. Window Glass Co., Farmers Bank Bldg., Pittsburgh, 1 story, 120 x 142 ft. steel and brick factory, to Hughes-Foulkrod Co., Oliver Bldg., Pittsburgh.

Pa., Osgood (Greenville P. O.)—Du Roth Steel Truck & Car Wheel Co., 611 Keystone Bldg., Pittsburgh, 1 story, 100 x 200 ft. steel factory, to Pittsburgh Bridge & Iron Co., Rochester. Noted Aug. 3.

Pa., Phila.—Lutheran Publishing Co., 9th and Sansom Sts., 8 story, 74 x 117 ft. rein.-con. and brick plant, 13th and Spruce Sts., to Wark & Co., 231 South Broad St. Engrs. est. $500,000.

Pa., Phila.—Phila. Electric Co., 10th and Chestnut Sts., 1 story, 59 x 121 ft. rein.-con., brick and steel substation, American and Susquehanna Aves., to F. L. Hoover & Sons, 1023 Cherry St. Engrs. est. $80,000.

O., Columbus—Columbus Show Case Co., Grant Ave. and Buckingham St., 3 story, 82 x 382 ft., rein.-con. and brick factory, concrete pile foundation, to Frank-Hill Smith, Inc., Winters Bldg., Dayton, $100,000.

O., Dayton—Delco Light Co., 6 story, 190 x 350 ft., rein.-con. and brick factory, concrete pile foundation, East 1st St., to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, $600,000.

Ill., Chicago—J. T. Igoe Co., 117 West Harrison St., 10 story, 100 x 150 ft. printing plant, rein.-con., brick and steel, Van Buren and Jefferson Sts., to E. P. Strandberg Co., 236 East Erie St. Archts. est. $750,000. Noted March 16.

Wis., Green Bay—Standard Oil Co., 68 Wisconsin St., Milwaukee, 1 story, 52 x 100 ft. garage and warehouse, brick and concrete, plain foundation, to B. Herman & Son, 1412 Hamilton St., Manitowoc. Engrs. est. $40,000.

Wis., Madison—A. Maisano, 821 Regent St., 2 story, 50 x 90 ft., garage and repair shop, rein.-con., steel and brick, plain foundation, to B. Wrend, 1009 Milton St. Engrs. est. $40,000.

Wis., Milwaukee—L. Leidersdorf Co., 417 Sycamore St., 1 story, 50 x 150 ft., brick and concrete, plain foundation, Clybourn St., to E. Steigerwald & Son, 3603 Vliet St. Engrs. est. $45,000.

Wis., Milwaukee—Rockwell Mfg. Co., 572 Park St., 1 story, 60 x 200 ft., brick and timber warehouse, plain foundation, Park St., to C. Behnke, 827 34th St. Engrs. est. $40,000.

Wis., Oshkosh—Kaewer Auto Co., Main and Irving Sts., 1 story, 64 x 130 ft., garage addition, brick and concrete, plain foundation, Main St., to Fluor Bros. Constr. Co., 52 State St. Archts. est. $40,000.

Wis., Racine—H. & M. Body Corp., 608 Center St., 1 story, 100 x 240 ft., brick and timber, dry kilns, plain foundation, to Everett Winters Co., 725 Detroit Savings Bank Bldg., Detroit, Mich. Engrs. est. $125,000.

Ia., Davenport—N. O. Nelson Mfg. Co., 103 Brady St., general contract, 2 story, 60 x 100 ft. factory, brick and concrete, to Priester Constr. Co., 1006 Kahl Bldg. Archts. est. $40,000.

Calif., Dinuba—Sun Maid Raisin Growers, Holland Bldg., Fresno, 80 x 140 ft. packing plant, here, to Trewhitt Shields Co., Rowell Bldg., Fresno. Noted June 8.

Calif., San Francisco—R. McLeran & Co., Hearst Bldg., will build 2 story, 124 x 200 ft. brick and concrete warehouse, Mariposa and Alabama Sts., by day labor. $130,000. Illinois-Pacific Glass Co., 14th and Folsom Sts., lessee.

Que., Lachine—Linde Canadian Refrigeration Co., St. Peters St., Montreal, factory, to A. Leduc, 351 Chrithopher Colomb St., Montreal. Engrs. est. $40,000.

Ont., Walkerville—Gotfredson-Joyce Co., Walker Rd., 70 x 100 ft. brick addition to factory, Walker Rd., to Muxlow & Gale, Quellette Ave., Windsor. Engrs. est. $50,000.

B. C., Marpole—Pacific Meat Co., 268 Columbia St., Vancouver, will build 2 story, 65 x 100 ft. abattoir and cold storage packing plant, cattle sheds, etc., mill construction, ground floor concrete, along Fraser River, by day labor. $80,000. H. Idsardi, c/o owners, engr.

Buildings

PROPOSED WORK

N. Y., New York—Apartment—P. S. Murray, c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., had plans prepared 14 story, brick, steel and stone, plain foundation, 98th St. and 5th Ave. $750,000.

N. Y., Rochester—School—St. Boniface Church plans 135 x 154 ft. brick school, 40 ft. high, Whalen St. $200,000. Architect not announced.

Pa., Altoona—Cathedral—Diocese of Altoona, c/o J. J. McCort, soon takes bids 7 story, stone, 13th St. $500,000. G. I. Lovatt, 416 Walnut St., Phila., archt.

Pa., Chester—Bank and Office—Cambridge Trust Co., 5th and Market Sts., plans new bank and office, incl. demolishing present 5 story brick building, 5th and Market Sts. To exceed $500,000.

Pa., Corry—Hotel—Bd. Commerce negotiating with parties for erection of modern hotel. To exceed $200,000.

Pa., Hazelton—Hotel—C. D. Markle, Jr., Hazelton, plans 10 story, hotel. To exceed $500,000.

Pa., Phila.—Recreation—J. B. Sinkler, archt., 1225 Chestnut St., soon takes bids 1 and 2 story, 48 x 275 ft. rein.-con., brick and steel, plain foundation, 22nd and Sedgley Sts., for Bureau Recreation, City Hall. $200,000.

Tenn., Nashville — Fraternal — Scottish Rite Consistory, 7th Ave., having plans prepared by Asmus & Clark, archts., Stahlman Bldg., concrete, steel and stone, 7th Ave. and Broad St. $500,000.

O., Akron—Memorial—City plans war memorial building in Glendale Park. $250,000. Architect not announced.

O., Canton—Temple—Osgood & Osgood, archts., Fine Arts Bldg., Grand Rapids, Mich., preparing plans and takes bids in spring, 5 story, brick, concrete and stone, here, for Masonic Assn., c/o W. R. Zollinger, 205 Market Ave. $650,000. W. H. Adams, Campau Bldg., Detroit, Mich., engr.

O., Cleveland—Apartment—R. Grimm, 1973 West 89th St., had plans prepared 3 story, 85 x 106 ft., brick and timber, Madison Ave. near Wyandotte Ave. $150,000. Private plans.

O., Cleveland—Commercial, Office, etc.—W. B. Gongwer, Federal Bldg., is interested in syndicate which plans 3 and 6 story, commercial and office building and garage, brick, steel and concrete, 3328 Euclid Ave. $400,000. W. S. Lougee, 500 Marshall Bldg., archt.

O., East Cleveland (Cleveland P. O.)—Apartment—F. and S. Realty Co., 810 Ulmer Bldg., Cleveland, had plans prepared by A. Sogg, archt., 319 Hippodrome Bldg., Cleveland, 3 story, 82 x 115 ft., brick and timber, 1757 Page Ave., here. $150,000.

O., Groveport—High and Grade School—Voted $210,000 bonds for 2 story, high and grade school. D. Reibel & Son, 1st Natl. Bank Bldg., Columbus, archts. Noted June 15.

O., Lakewood (Cleveland P. O.)—School—Bd. Educ., Warren Rd., having plans prepared by C. W. Hopkinson, archt., Rose Bldg., Cleveland, 2 story, brick, steel and concrete, Clifton Blvd. near Giel Ave. $300,000.

O., Logan—Court House—Hocking Co. voted $250,000 bonds for new courthouse. Noted May 25.

O., London—Prison—Ohio Dept. Pub. Welfare, Columbus, called upon F. L. Packard, archt., Hayden Bldg., Columbus, and others, to submit plans and drawings for prison, here. Original estimate of $3,000,000 was rejected.

Ill., Chicago — Apartment-Hotel — E. Doerr, c/o W. P. Doerr, archt., 28 East Jackson Blvd., plans 7 story, 120 x 227 ft., rein.-con., brick and steel, South Shore Dr. between 53rd and 54th St. $500,000.

Ill., Chicago—Hotel—Ludgin & Leviton, archts., 53 West Jackson Blvd., preparing plans 4 story, 40 x 180 ft., rein.-con., brick and steel, near Loop, $200,000. Owners name withheld.

Wis., Milwaukee—Church—F. Howend, archt., 69 Wisconsin St., soon receives bids 1 story, 72 x 160 ft., rein.-con., brick and steel, Sherman Blvd., for Third Church of Christ Scientist, c/o W. B. Drescher, 1179 16th St., chn. building comn. $160,000. Klug & Smith, 69 Wisconsin St., engrs. Noted June 22.

Ia., Dubuque—Convent—St. Marys Convent, 69 Emmett St., having plans prepared by Damon, O'Meara & Hills, archts., 1123 Merchants Bank Bldg., St. Paul, Minn., 4 story, 225 x 300 ft., rein.-con., brick, tile and stone, $350,000.

Mo., Kansas City—Hotel—G. L. Woodward, c/o Southern Oil Co., 37 West Jackson Blvd., Chicago, soon takes bids 8 story, 150 x 300 ft., rein.-con., brick, stone and terra cotta, Linwood Ave., here. Schumacher & Greenbaum, archts.

Okla., Tulsa—School—Bd. Educ. having plans prepared by G. Winkler, archt., 414 Palace Bldg., 4 story, 125 x 160 ft., rein.-con., brick, stone and terra cotta, incl. refrigerating plant, and swimming pool, 6th and Cincinnati Sts. $1,000,000. W. E. Gillham, 30 Mutual Bldg., Kansas City, Mo., engrs.

Nev., Reno—Hotel—G. Wingfield, Reno Natl. Bank Bldg., had plans prepared by F. J. De Longchamps, archt., Gazette Bldg., 4 story, brick and steel, $200,000.

BIDS DESIRED

Mass., Boston — Office — Aug. 25, by Chamber of Commerce 177 Milk St., 12 story, 113 x 183 ft. brick and stone, Federal and Franklin Sts. $3,000,000. Parker, Thomas & Rice, 110 State St., archts., French & Hubbard, 88 Pearl St., engrs.

N. Y., Syracuse—Clubhouse—Sept. 1, by J. D. Meehan, archt., Everson Bldg., 5 story, 83 x 132 ft. and 33 x 80 ft., brick and steel, West Genesee St., for Fraternal Order Eagles. $250,000. J. J. Menter, secy. Noted May 11.

N. J., Asbury Park—Hotel—Aug. 28, by Warren & Wetmore, archts., 16 East 47th St., New York City, 6 story, brick, steel and stone, plain foundation, here, for Asbury Park Hotel, c/o architects.

N. J., Teaneck (Englewood P. O.)—Schhool—Sept. 5, by Bd. Educ. of Teaneck Twp. for School 4, West Englewood Ave. and Essex Lane. C. V. R. Bogert, 167 Main St., Hackensack, archt.; adv. this issue.

Pa., Lykens—Lodge—Aug. 29, by C. P. Berger, archt., 1422 South Penn Sq., Phila., 3 story, 48 x 140 ft., brick, steel and stone, plain foundation, for L. O. O. M. 1176. $200,000.

Pa., Phila.—School—C. J. Cumminsky, archt., 118 West Sharpnack St., taking bids 3 story, 100 x 184 ft. brick, steel and stone, plain foundation, 24th and Wallace Sts., for St. Francis Roman Catholic Church, 24th and Green Sts. $250,000.

Va., Richmond—College—William and Mary College taking bids 4 story, 64 x 80 ft. brick and concrete, Williamsburg Ave. C. M. Robinson, Times Dispatch Bldg., archt.

Ga., Atlanta—Hotel—Aug. 30 at office of C. Dinkler, Ansley Hotel, for 125 room addition. G. L. Preacher & Co., Healey Bldg., archts.

O., Cleveland—Commercial and Apartment—Blatt Court Properties Co., c/o J. C. Reeves, 1655 East 75th St., taking bids and opens same about Sept. 1, 3 story, 68 x 102 ft., brick and timber, West 25th St. and Blatt Court. $150,000. A. F. Janowitz, Permanent Bldg., archt.

O., Cleveland—Commercial and Office—J. Babin, 827 Superior Ave., taking bids 2 story, 60 x 234 ft., brick and steel, 9701 Euclid Ave. $175,000. N. Petti, Williamson Bldg., archt.

O., Greenville—High School—Aug. 28, by E. L. McClain, pres. Bd. Educ., 2 story high school. $200,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

O., Maple Heights (Bedford P. O.) — School—Aug. 28, by St. Venceslas Catholic Church, 2666 East 35th Pl., Cleveland, 3 story, 103 x 150 ft., brick, steel and stone, Libby Rd., here. $150,000. W. C. Jansen, Electric Bldg., Cleveland, archt. Noted Aug. 17.

Ind., Michigan City—Lodge—Sept. 1, by Masonic Temple Assn., 3 story, 82 x 82 ft. brick, steel and terra cotta, 6th St. $150,000. Nicol, Scholer & Hoffman, Lafayette, archts. Noted Aug. 17.

Ill., Chicago—Hotel—V. C. Carlson, 701 Church St., receiving bids 7 story, 140 x 270 ft., rein.-con., brick and steel, Orrington Ave. and Church St. $1,500,000. J. A. Scanlan, c/o owner, archt.

Ill., Chicago—Apartment—A. E. Marks, 30 North La Salle St, receiving bids 3 story, 100 x 125 ft., rein.-con., brick and steel, 2500-08 Pensacola Ave. $160,000. A. B. Maiwurm, 516 South Euclid Ave., Oak Park, archt.

Ill., Chicago—Bank, Store and Office—Michaelson & Rognstad, archts., 3813 West Congress St., receiving bids 5 story, 240 x 240 ft., rein.-con., brick and steel, Milwaukee Ave. and Irving Park Blvd., for E. H. Bengson, 2919 Milwaukee Ave., $500,000.

Ill., Chicago — Fraternity House — H. Shaw, archt., 39 South State St., receiving bids 3 story, 90 x 175 ft., rein.-con., brick and steel, Woodlawn Ave. and 56th St., for Phi Kappa Psi Chapter of University of Chicago, University Ave. and 60th St. $150,000. Noted Feb. 9.

Ill., Crystal Lake—High School—J. C. Llewellyn, archt., 38 South Dearborn St., Chicago, receiving bids 2 story, 60 x 150 x 260 ft., rein.-con., brick and steel, here, for Bd. Educ. $200,000.

Buildings (Continued)

Ill., Rogers Park (Chicago P. O.)—Apartment—O. Van Gunten, archt., 26 East Huron St., Chicago, receiving bids 3 story, rein.-con., brick and steel, here. $250,000. Owner's name withheld.

Colo., Denver—Restaurant—T. R. Wieger, archt., Chamber Commerce Bldg., takes bids about Sept. 1, 2 story, 50 x 125 ft., rein.-con., steel, brick and terra cotta, plain foundation. Glenarm St. between 16th and 17th Sts., for A. Trachsel and O. Hebestreit, 430 Emerson St. $150,000.

Ariz., Flagstaff—High School—Bd. Trustees, general contract 3 story, 130 x 180 ft., rein.-con., brick and steel, plain foundation, to N. P. Agren, Phoenix, $124,000. Noted June 22.

Calif., San Francisco — Church — C. Werner, archt., Humboldt Bank Bldg., taking bids 1 story, rein.-con., Funston Ave. and Clement St., for Fourth Church of Christ Scientist. $150,000. Noted June 8.

Calif., San Francisco—Office—A. I. Coffey, archt., Humboldt Bank Bldg., taking bids 5 story, brick or concrete, steel frame, Sutter and Leavenworth Sts., for Incorporation of Doctors.

Calif., San Luis Obispo—Hotel and Store—C. A. Meussdorffer, archt., Humboldt Bank Bldg., San Francisco, taking bids 5 story, rein.-con., Montgomery and Morro Sts., here, for J. L. Anderson, c/o architect. $150,000. Noted June 8.

Calif., Visalia—Bank and Office—A. Cuneo, Bank of Italy, Powell and Market Sts., San Francisco, taking bids 5 story, rein.-con., here. $250,000. R. F. Felchlin & Co., Bank of Italy Bldg., Fresno, archts.

Ont., Owen Sound—School—Aug. 31, by Foster & Clark, associated archts., 887 Second Ave. E., 3 story, 80 x 300 ft., rein.-con., brick and steel for Bd. Educ. $185,-000. Watts & Blackwell, St. James Chambers, Toronto, archts.

Ont., St. Thomas—School—Sept. 16, by R. Kilmer, chn. Bd. Educ. 2 story, 6 room and auditorium, brick, Myrtle and Balaclava Sts. $150,000. N. R. Darrach, 430 Talbot St., archt.

Ont., Toronto—Dormitory—Aug. 29, by J. P. Hynes, archt., 73 King St., W., 3 story, 114 x 128 ft. rein.-con., brick and steel, St. Albans St., for St. Josephs Convent, St. Albans St. $200,000.

Que., Montreal—School—Aug. 28, by Catholic School Comn., 87 St. Catherine St. W., school and residence, St. James Ward. I. Vautree, 30 St. James St., archt.

BIDS RECEIVED

O., Akron—Court House—Summit Co., Court House, opened bids Aug. 12, 3 story, 72 x 176 ft. sandstone annex, plain foundation, South Bway., from Carmichael Constr. Co., 524 Hamilton Bldg., $354,150; Clemmer & Johnson Co., 406-7 Hamilton Bldg., $383,-649; Akron Storage & Contg. Co., Cole Ave. and Sherman St., $398,000. Contract awarded to lowest bidder. Noted July 27.

O., Elyria—School—Bd. Educ. opened bids July 28, 2 story, brick, steel and concrete addition to Roosevelt School, from J. Kaiser & Bros., Elyria, $130,000; J. Halpin, Elyria, $130,475. (Street addresses not available.) Noted June 22.

Calif., Gilroy—Schools—Gilroy School Dist. opened bids, (a) one 6 room junior high school, (b) one 14 room elementary school, both frame and stucco, general contract from E. Nommensen, 19 South 5th St., San Jose, (a) $80,624, (b) $40,779; Sample & Cody, 180 Jessie St., San Francisco, (a) $81,000; C. Stockholm & Son, Monadnock Bldg., San Francisco, (a) $86,650; W. Radke, Gilroy, (b) $42,783; Ward & Jones, 180 Jessie St., San Francisco, (b) $44,555. Noted June 29.

CONTRACTS AWARDED

Mass., Amherst — Laboratory — Massachusetts Agricultural College, 2 story, 75 x 195 ft., brick and steel, on Campus, to Allen Bros., Amherst. Archts. est. $250,000. Noted June 22.

Mass., Revere — High School — School Dept., 4 story, 75 x 132 ft. brick, concrete and steel, plain foundation, Beach St., to A. B. Carter & Sons Co., 73 Tremont St., Boston. Archts. est. $250,000. Noted June 15.

R. I., Pawtucket—Church—Church of Our Lady of Consolation, 1 story, brick and stone, Sabin and Webster Sts., to C. B. Maguire Co., 1205 Turks Head Bldg., Providence. Archt. est. $150,000. Noted May 25.

Mass., Salem—Church, etc.—Tabernacle Congregational Church, Washington St., 1 story, brick, stone and steel church, and 2 story, brick and steel parish house, Washington and Federal Sts., to E. A. Abbott Co., 3 Park St., Boston. Archts. est. $160,000.

N. Y., New York — Apartment — A. Bricken Constr. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., brick, steel and stone, plain foundation, Lexington Ave., by day labor. $750,000.

N. Y., New York—Drill Shed—Armory Bd., Municipal Bldg., drill shed for 15th Infantry, 142nd St. between Lenox and 5th Aves., to Post & McCord, 101 Park Ave., $471,000. Noted Aug. 10.

N. Y., Wende—Penitentiary—Bd. Supervs. Erie Co., Buffalo, general contract for administration building, bakery, laundry and other buildings, here, to Morris & Allan, Inc., Prudential Bldg., Buffalo, $682,031; heating and ventilating work, to Power Efficiency Corp., White Bldg., Buffalo, $47,-700. Noted Aug. 3.

N. J., Camden—Store—H. Pinsky Sons Co., Bway. and Spruce St., 5 story, 56 x 92 ft., rein.-con., brick and steel, Bway., to Potts Bros. & Cooperson, 129 North 11th St., Phila., $175,000.

N. J., Pittman—School—Bd. Educ. 2 story, 112 x 116 ft. school, to Chester Constr. Co., Crozer Bldg., Chester, Pa., $155,917.

N. J., Somerville—School—Bd. Educ., general contract 3 story, rein.-con. and brick, to Carroll & Pullen, Branch Ave., Princeton, $179,000.

Pa., Johnstown—Auditorium and Gymnasium— Bd. Educ., 1 story, 110 x 115 ft. auditorium and 80 x 242 ft. gymnasium, Central Ave., to Thiel Constr. Co., Johnstown. Archts. est. $650,000. Noted Aug. 10.

Pa., Phila.—Church and Rectory—Church of Incarnation, c/o R. J. Brady, 52nd and Lindley Aves., 2 story, 79 x 159 ft. and 47 x 359 ft., brick, steel and stone, plain foundation, to D. W. O'Dea, 5227 North 5th St. Archts. est. $500,000.

Pa., Scranton—School—Marywood College, three 2 story brick, steel and stone buildings, at Marywood near Scranton, general contract and excav., to P. Boland of Boland Bros., 427 Spruce St. Archts. est. $200,000.

O., Cleveland—Church—St. Clements Catholic Church, c/o W. Koehl, archt., Park Bldg., 1 story, 61 x 106 ft., brick, steel and concrete, Madison and Lincoln Aves., to Schrader Constr. Co., 1643 East 40th St. Archts. est. $150,000.

O., Grandview Heights (Columbus P. O.)—High School—Bd. Educ., general contract 2 story, 145 x 173 ft., brick and concrete, 3rd Ave., to L. L. LeVegue Co., 1518 Clifton Ave., Columbus, $160,985; plumbing and heating work, to Fitpatrick & Hoepfner, 63 East Gay St., Columbus, $44,978. Noted July 20.

O., Louisville—High School—Thayer & Johnson, archts., 5716 Euclid Ave., Cleveland, general contract 2 story, brick, steel and concrete, here, to R. G. Witters, 1539 Harvard Court, N. W., Canton, for Bd. Educ. $150,959. Noted July 27.

O., Mt. Sterling—School—Bd. Educ., 2 story, 120 x 133 ft., brick and concrete, to L. G. Foltz & Sons, 448 Nelson Rd., Columbus, $82,200. Noted Aug. 17.

Mich., Detroit—Office—J. B. Book, Book Bldg., steel work for 21 story, 60 x 100 ft. office building, Washington Blvd., to Russel Wheel Fdry. Co., Chene St. and Belt Line Ry. Noted July 27.

Mich., Grand Rapids—Bank and Hotel—Kent State Bank, 98 Ottawa St., N. W., 13 story, 67 x 154 ft., Monroe and Ionia Aves., to Owen, Ames & Kimball, Michigan Trust Bldg. Archts. est. $1,000,000.

Ill., Chicago—Administration—Immanuel Baptist Church, c/o N. M. Dunning, archt., 304 South Wabash St., 4 story, 54 x 123 ft., rein.-con., brick and steel, 2316-26 Michigan Blvd., to Wells Bros. Constr. Co., 53 West Jackson Blvd. Archts. est. $225,000.

Ill., Chicago—Apartment—Kahn & Jonas, c/o A. S. Alschuler, archt., 58 East Jackson Blvd., three 3 story, 158 x 250 ft. (over all), rein.-con., brick and steel, Ingelside and 54th St., to Johnson-Anderson Co., 7120 Evans Ave. Archts. est. $450,000.

Ill., Chicago—Apartment—J. Kulp & Co., Standard Trust Bldg., 3 story, 120 x 165 ft., rein.-con., brick and steel, 6748-58 Crandon Ave., to Anderson & Winblad, 6235 South Michigan Ave. Archts. est. $200,000.

Ill., Chicago—Apartment—M. Zwen, 1303 North Western Ave., 3 story, 100 x 125 ft., rein.-con., brick and steel, Rockwell and Schubert Sts., to E. Fridstrom, 4364 Montrose Ave. Archts. est. $150,000.

Wyo., Cheyenne—Temple—Scottish Rite Masons, 4 story, 120 x 132 ft., granite and stone superstructure, 20th and Capitol Sts., to E. J. Keefe, Laramie, $296,582. Foundation and steel work completed. Noted June 7, 1921.

Calif., Palo Alto—Dining Hall—L. Stanford, Jr., University of California, 1 story, rein.-con., to G. Wagner, 251 Kearny St., San Francisco, percentage basis, about $200,000.

Calif., San Francisco—Hotel and Store—G. D. Smith, 735 Taylor St., 10 story, rein.-con. hotel, and 1 story store building, Sutter St. near Taylor St., to Clinton Constr. Co., 140 Townsend St., $450,000.

Calif., Stockton—School—Bd. Educ., constructing Roosevelt School on Burkett Acres, 13 rooms and assembly hall, general contract to Shepherd & Riley, Yosemite Bldg., $119,207. Noted Aug. 17.

Ont., Ottawa—Store—J. A. Laroque, 270 Dalhousie St., 3 story, 40 x 200 ft. Rideau St., to I. A. Garvock, Sparks St. Noted June 22.

Que., Westmount—City Hall—To Nicholson Constr. Co., St. Catherine St. W., Montreal, grey stone and limestone, Sherbrooke St., $140,000. Noted May 18.

Federal Government Work

PROPOSED WORK

Conn., New Haven—Dredging—U. S. Engineer, Providence, R. I., soon takes bids dredging in harbor, here.

Pa., Phila.—Embankment and Riprap—U. S. Engineer, 815 Witherspoon Bldg., soon takes bids embankment and riprap in Delaware River at Artificial Island.

Del., Wilmington—Jetties—U. S. Engineer, Wilmington, soon takes bids for jetties at mouth of Smyrna River.

Minn., Duluth—Stone Riprap—U. S. Engineer, Duluth, soon takes bids for stone riprap on breakwater, upper end of Keweenaw Waterway, Michigan.

Tex., Galveston—Repairs to Dam—U. S. Engineer, Galveston, soon takes bids for repairs to Caddo Lake Dam.

Calif., Los Angeles—Dredging—U. S. Engineer, Los Angeles, soon receives bids dredging in harbor, here.

BIDS DESIRED

Mass., Northampton—Hospital—Sept. 12, at office Quartermaster General, 2306 Munitions Bldg., Wash., D. C., construction of group of hospital buildings, here; adv. this issue. Noted Aug. 17.

R. I., Providence—Repairing Jetty—Sept. 15, at U. S. Engineer Office, repairing east jetty at entrance to Nantucket Harbor, Mass.; adv. this issue.

D. C., Wash.—Tunnel, Conduit., etc.—Aug. 26 at office Public Printer, Government Printing Office, for tunnel, electric conduit, steam piping, pipe covering and electric wiring between Capitol power plant and Government Printing Office. Col. Metz, engr. in charge.

Va., Hampton Roads—Riprap Protection—Spec. 4699—Sept. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., riprap protection for north breakwater at submarine base, here. Noted Aug. 17.

Fla., Jacksonville—Jetty Repairs—Sept. 21, at office U. S. Engineer, jetty repairs at entrance to St. Johns River; adv. this issue.

Ala., Florence—Barges—Sept. 18, at office U. S. Engineer, for 2 steel barges; adv. this issue.

Ala., Florence—Turbine—Sept. 18, at office U. S. Engineer, 1 hydraulic turbine; adv. this issue.

La., New Orleans—Barges—Sept. 15, at office U. S. Engineer, 329 Customhouse, for 2 steel oil barges in Mississippi River, here; adv. this issue.

Mo., St. Louis—Mezzanine—Sept. 8, by Treas. Dept., Wash., D. C., mezzanine for U. S. Post Office, here. J. A Wetmore, acting superv. archt.

Calif., San Diego—Guard House, etc.—Spec. 4582—Sept 13, by Bureau Yards & Docks, Navy Dept., Wash., D. C., guard house and shops at Marine Barracks, Naval Base, here. Noted Feb. 23.

BIDS RECEIVED

Del., Wilmington—Excavation—U. S. Engineer, Wilmington, excavating Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md. (Chesapeake and Delaware Canal). 5,600,000 cu.yd. excav., from W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, N. Y., $0.2452 per cu.yd.; Atlantic Gulf & Pacific Co., Atlantic City, N. J. (street address not available), $0.264; Dawes & Bernard, Rochester, N. Y. (street address not available), $0.284. Noted July 20.

D. C., Wash.—Remodeling—Spec. 4694—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling subsistence building at Naval Hospital Reservation, here, from Schneider & Spiletd Co., 402 Kellogg Bldg., $14,878 (45 days); W. E. Mooney, 505 Evans Bldg., $15,512 (45 days); H. B. Davis, 1311 G St., $17,000 (75 days). Noted Aug. 10.

Fla., Key West—Distilling Plant—Spec. 4546—Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling plant, here, from A. Pope, 4722 15th St., N.W., Wash., D. C., $63,250 (150 days); J. R. Proctor, Inc., 16 West 9th St., Bayonne, N. J., $66,990; F. J. Eisinger, 310 St. Johns Pl., Brooklyn, N. Y. $73,341 (180 days). Noted July 13.

Calif., Palo Alto—Rehabilitating Water Supply—Treas. Dept., Wash., D. C., moving

Federal Government Work (Continued)

and resetting certain pumping equipment, pipe lines and other machinery, here, from Turner Co., 273 Natoma St., San Francisco, $34,595; M. Murphy, 1321 Milvia St., Berkeley, $37,700.

Calif., San Diego—Wire Partitions—Spec. 4696—Bureau Yards & Docks, Navy Dept., Wash., D. C., wire partitions at Naval Base, here, from Standard Fence Co., 245 Market St., San Francisco, $3,999; City Wire & Iron Works, 333 North San Pedro St., Los Angeles $4,735; Berger-Rothgeb Co., Los Angeles, $5,326. Noted July 27.

CONTRACTS AWARDED

N. Y., Buffalo—Riprap Stone—U. S. Engineer, Federal Bldg., riprap stone on neck of Presque Isle Peninsula, Erie Harbor, Pa., to W. H. Ellery, 3629 West Lafayette St., Detroit, Mich., $27,312.

N. Y., Tupper Lake—Foundations—Spec. 4698—Bureau Yards & Docks, Navy Dept., Wash., D. C., foundations for 5 buildings for U. S. Veterans Hospital, here, to W. M. Sutherland Building and Contg. Co., 408 Compton Bldg., St. Louis, Mo., $42,000 (60 days). Noted Aug. 17.

Md., Annapolis—Refrigerating Plant—Spec. 4689—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating plant at U. S. Naval Academy, here, to Clothel Refrigerating Co., 61 Bway., New York City, $1,950 (30 days). Noted Aug. 17.

D. C., Wash.—Air Compressor—U. S. Engineer Office, 250 Old Land Office Bldg., motor driven air compressor to Norwalk Iron Wks., Water St., N., Norwalk, Conn., $14,370.

D. C., Wash.—Diesel Engine, etc.—Chief of Engineers, 2802 Munitions Bldg., for Diesel engine, generating sets and switchboards, to Winton Engine Wks., 2116 West 106th St., Cleveland, O., $121,498. Noted June 15.

Ala., Montgomery—Steel Hull—U. S. Engineer, Montgomery, steel hull for dipper dredge Upatoi, to Johnson Iron Wks., Drydock and Shipbuilding Corp., Morgan and Seguin Sts., $25,850. Noted July 6.

La., New Orleans—Dikes, etc.—U. S. Engineer, 329 Custom House, dikes and mattresses, to L. F. Alexander & Co., Audubon Bldg., $311,075.

La., New Orleans—Willows and Poles—U. S. Engineer, 329 Custom House, willows and poles at Passes of Mississippi River, to R. S. Levy & Co., Venice, $45,000.

Tenn., Memphis—Bank Revetment and Mattress—Mississippi River Comn., 1st and 2nd Dists., Custom House, bank revetment and mattress for White River at Narrows, to W. P. McGeorge, 1719 Cherry St., Pine Bluff, Ark., $16,880.

Tenn., Memphis—Levee Work—Mississippi River Comn., 1st and 2nd Dists., Custom House, earthwork in Upper and Lower St. Francis and White River Dists., Stations 13/4 and 14/0, to Harris & Day, Bridge Junction, Ark., $70,200; Stations 20/31 and 21/28 to Roach, Stansell, Lawrence Bros., North Memphis Savings Bank Bldg., $95,160. Noted Aug. 3.

Miscellaneous

PROPOSED WORK

Transmission Lines—Bolivar, N. Y.—Bolivar-Richburg Electric Co. plans transmission lines in Bolivar, Richburg, Wirt and Genesee. To exceed $30,000.

Golf Course—Chautauqua, N. Y.—Chautauqua Golf Club, The Colonnade, purchased 32 acres and having plans prepared extending golf course. $32,000. G. W. Rowland, comr. D. J. Ross, Pinehurst, N. C., engr.

Street Sweeper and Cleaner — Farrell, Pa.—Boro plans to purchase motor driven street sweeper and cleaner machine.

Coal Tipple—Richmond, Va.—Richmond, Fredericksburg & Potomac, Broad St., having plans prepared and takes bids about Sept. 1, for coal tipple. $300,000.

Freight Sheds—New Orleans, La.—Bd. Port Comrs., Canal St., plans 203 x 530 ft. freight shed and wharf, 7th St., $225,000, also 150 x 220 ft. steel and corrugated iron freight shed and warehouse, Market St., $150,000. A. Young, 1 Canal St., ch. engr.

Levee Improvements—New Orleans, La.—G. C. Schoenberger, asst. engr., submitted report to Bd. State Engrs., New Court Bldg., on condition of levees in 5th Louisiana Levee Dist. Summary of work to be undertaken as follows: East Carrol Parish, $317,550, Madison Parish $235,000, Tensas Parish $531,000, Concordia Parish $343,000, also other miscellaneous work in same parishes totaling $242,600.

Electric Light System, etc.—Pelahatchee, Miss.—Making plans electric light and waterworks system. $40,000. Swanson-McGraw, Inc., 705 United Fruit Bldg., New Orleans, La., consult. engrs.

Playgrounds, etc. — Dayton, O. — Will vote on $300,000 bonds in November for opening 3 new playgrounds and adding equipment to existing community centers. I. E. Houk, city engr.

Grain Elevator and Cleaner House — Salina, Kansas—H. D. Lee Flour Mills Co. soon takes bids rein.-con., grain elevator, 8 bins, 22 ft. diam., 95 ft. high, with head house, and 23 x 63 ft. cleaner house, 95 ft. high, Santa Fe Ave. $150,000. I. L. Zerbe, Salina, archt. and engr.

Gas Line—Okesa, Okla.—Smelters Gas Co., Bartlesville, plans 6 mi. of 6 in. gas line from here to Bartlesville. $50,000. Engineer not announced.

Playgrounds, etc.—Redwood City, Calif.—Plans election to vote on $35,000 bonds to purchase site, equip playground, build well and pump engine $3,500, swimming tank $4,000, board walk, concrete tennis courts, etc. C. L. Dimmitt, city engr.

Arena—Brantford, Ont.—A. Ballantyne is head of syndicate which plans to build arena. Prices wanted on artificial ice plant. $100,000.

Drilling Wells—Chatham, Ont.—Union Natural Gas Co., Chatham, plans to drill wells in Dover and Dawn Twps., for oil and gas. $35,000. Prices wanted on pipe and equipment.

Underground Conduits—London, Ont.—Bell Telephone Co., 435 Clarence St., plans to put telephone wires in underground conduits. $40,000. Prices wanted on all materials. Private plans.

Ornamental Lighting System—Riverside (via Windsor), Ont.—Plans 4½ mi. ornamental electric lighting system along Riverside Dr. $50,000. W. Code, City Hall, Riverside (via Windsor), engr.

BIDS DESIRED

Refrigeration Work—Marcy, N. Y.—Sept. 6, by State Hospital Comn., Albany, refrigeration work-kitchen for acute patients building, at Utica State Hospital, Marcy Div., here. L. M. Farrington, secy.; adv. this issue.

Dumping Platform and Ramp, etc.—New York, N. Y.—Sept. 1, by J. H. Delaney, comr. Docks & Ferries, Pier "A" foot of Battery Pl., superstructure on pier at East 35th St. consisting of rein.-con. dumping platform and ramp, Contr. 1773. Noted Aug. 17.

Ornamental Lights—Long Branch, N. J.—Aug. 29, by Bd. City Comrs., Council Chambers, installing ornamental lights on Ocean Ave. from Sea View to Brighton Aves. F. C. Quinn, city clk.; adv. this issue.

Hoists—Pittsburgh, Pa.—J. P. Moore, controller Allegheny Co., taking bids one Brownhoist No. 2 type, mounted on railroad trucks, 4 wheels complete, 30 ft. boom, one yd. clam shell type grab bucket, f.o.b. Bakerstown; also one No. 3 type mounted on railroad trucks, 4 wheels complete, 45 ft. boom, 1½ yd. clam shell type grab bucket, f.o.b. Woodville.

Mechanical Equipment — Wilmington, Del.—Sept. 8, by Harbor Comrs., Municipal Bldg., mechanical equipment for Wilmington Marine Terminals; adv. this issue.

Creosoted Block—Knoxville, Tenn.—See "Bridges" under "Proposed Work."

Power Piping and Steam Heating System—Hammond, Ind.—Sept. 15, at office Bd. Pub. Wks., power piping and steam heating system in connection with new pumping station. A. J. Swanson, chn.; adv. this issue.

Road Roller, etc.—West Allis, Wis.—Aug. 28, by Bd. Pub. Wks., one 10 ton motor driven road roller with scarifier attachment and 1 motor driven grading machine. A. L. Wichner, supt.

Ornamental Lighting System—St. Paul, Minn.—Aug. 28, by city, ornamental lighting system in Crocus Hill Dist., 1,042 posts, single lights, in 30 streets, street length 127,000 lin.ft. $111,344. H. W. Austin, city purch. agt. O. Claussen, city engr. Noted May 11.

Heating Mains—San Antonio, Tex.—Sept. 2, by State Bd. Control, Austin, complete heating mains for Southwestern Insane Asylum, here.

Hydraulic Turbines — Toronto, Ont.—Hydro Electric Power Com., University Ave., taking bids three 86,000 hp. hydraulic turbines 320 ft. head, for Queenston Ont. plant. $1,000,000. F. A. Gaby, ch. engr.

BIDS RECEIVED

Refined Asphalt, etc.—Brooklyn, N. Y.—E. Riegelmann, boro pres., Boro Hall, opened bids Aug. 16, furnishing and delivering (1) 130,000 gal. refined asphalt in liquid form, (2) 1,500 cu.yd. binder stone, (3) 5,200 cu.yd. asphalt sand, (4) 750 net ton limestone or other suitable inorganic dust, (5) 28,900 ft. B.M. lumber, (6) 8,000 gal. tar road binder, (7) 2,200 cu.yd. paving sand, (8a) 3,000 cu.yd. 1½ in. gravel or (8b) 3,000 cu.yd. 1½ in. broken stone, (9) 5,300 bbl. Portland cement (10) 30,000 asphalt paving blocks, (11) 20,000 wood paving blocks, from Standard Oil Co., 26 Bway., New York (1) $0.0521 per gal.; Warner-Quinlan Co., 79 Wall St., New York (1) $0.0523; Calvin Tomkins, 30 Church St., New York (2) $2.03; Hygrade Builders Supply Co., 6th St. and 2nd Ave. (2) $2.09; (3) $1.19 (8b) $7,170 (9) $2.89; New York Trap Rock Corp., 101 Park Ave., New York (2) $2.29 (4) $7.88; Z. Mahoney (3) $1.24; Prever Lumber Co., 250 West 23rd St., New York (5) $976; East River Mill & Lumber Co., 92nd St. and East River, New York, (5) $1,821; J. A. Maloney & Co., 1182 Bway., New York (5) $1,973; F. J. Lewis Mfg. Co., 177th St. and Ferris St., New York (6) $0.1672; Barrett Co., 40 Rector St., New York (6) $0.205; J. F. Meehan, 103 Park Ave., New York (7) $0.97; T. E. McCormack, 810 Lincoln Rd., Flatbush (7) $1.10; T. Bernhardt (7) $1.17; Rosoff Sand & Gravel Co., 152 West 42nd St., New York (8a) $7,124; F. Starr Contg. Co., 220 West 42nd St., New York (8a) $8,610; B. Turecamo Contg. Co., 8706 Bay 12th St. (8b) $7,193; Washington Buckley, Inc., 666 Kent Ave. (8b) $7,500; Burroughs Building Material Co., Johnson Ave. and Newtown Creek (9) $2.88; M. M. Canda, 184 3rd St. (9) $3.18; Hastings Pavement Co., 25 Broad St., New York (10) $89; Amer. Creosoting Co., 17 Battery Pl., New York (11) $54.10; Southern Wood Pres. Co. (11) $56.60. Noted Aug. 10.

CONTRACTS AWARDED

Coal Pocket, etc.—Woonsocket, R. I.—See "Industrial Works."

Foundation—Brooklyn, N. Y.—Brooklyn Edison Co., 560 Pearl St., 40 ft. pile foundation for power plant, Marshall St. and Hudson Ave., to Frederick Snare, Inc., 8 West 40th St., New York, $1,000,000.

Broken Stone, etc.—St. George, N. Y.—J. A. Lynch, pres. Richmond Boro, furnishing and delivering 1,000 cu.yd. 1½ in. broken stone and 400 cu.yd. grits, to J. J. Johnson Sons, 455 Bway., West New Brighton, $3.48 and $3 per cu.yd. respectively; 100 cu.yd. screenings, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $3.60. Noted Aug. 17.

Seawall—Port Tampa, Fla.—To Carman Co., Tampa (street address not available), 290 ft. concrete seawall, 60 ft., 80,800 cu.yd. excav., etc., $18,500. Noted July 27.

Athletic Field — Youngstown, O.—Bd. Educ., reducing level of entire athletic field 3½ ft., providing drainage and constructing track, finishing grading and jumping pits, to Youngstown Constr. Co., 9 Realty Trust Bldg., $37,823.

Coal Handling and Conveying Machinery—St. Paul, Minn.—Coal handling and conveying machinery for Water Dept., to F. J. Rose Co., 718 Metropolitan Life Bldg., Minneapolis, $9,400. Noted Aug. 10.

Wood Blocks and Cast Iron Specials—St. Paul, Minn.—For 496 sq.yd. 3½ in. creosoted wood block to Walsh Tie Co., 914 Security Bldg., Minneapolis, $2.20 per sq.yd.; 11.55 ton c.i. water pipe specials, to St. Paul Fdry. Co., Como Ave. and Mackubin St., St. Paul, $110 per ton. Noted Aug. 10.

Granite Facing Stone—Lincoln, Neb.—State Capitol Comn., 335,280 cu.ft. granite facing stone in rough blocks, to H. Struebel, Bedford, Ind., $53,000. Noted July 27.

Cement—Napa, Calif.—Furnishing and delivering 10,000 bbl. cement, to F. G. Noyes, Napa, $3.15 per bbl. Noted July 27.

Transmission Lines—Turlock, Calif.—Turlock Irrigation Dist., 200 steel towers to Pacific Coast Steel Co., Rialto Bldg., San Francisco, $110 each; 470 mi. wire, to Aluminum Co. of America, Rialto Bldg., San Francisco, $0.1904 per lb.; 6,000 insulators, to Westinghouse Electric and Mfg. Co., 1st Natl. Bank Bldg., San Francisco, $2.47 each; bushings to Ohio Brass Co., Hobart Bldg., San Francisco; switchboard to General Electric Co., Rialto Bldg., San Francisco, $18,250. Noted Aug. 17.

Gas Mains—Montreal, Que.—Montreal Light, Heat & Power Co., Craig St., will lay 3,240 ft. 6 and 12 in. c.i. gas main in Delormier Ave. from Sherbrooke St. to Mt. Royal Ave., by day labor. $16,116. Noted Aug. 17.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Aug. 29.

State Road Work

Hartford, Conn.

SEALED PROPOSALS will be received by the State Highway Commissioner, 12 Washington Street, Hartford, Connecticut, until 2 P.M., daylight saving time, on Tuesday, August 29th, for the following sections of State work, in accordance with plans and specifications on file in the office of the State Highway Commissioner and at the following places:

TOWN OF COLCHESTER: About 5,83⅞ lin.ft. of 7 in. trap rock macadam on the North Westchseter Road. Plans and specifications at the Town Clerk's office and at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn.

TOWN OF DERBY: About 1,700 lin.ft. of Plain Cement Concrete pavement on Water St. NOTE: Portland cement for the above work will be furnished by the State. Plans and specifications at the City Clerk's office and at the office of E. C. Welden, Division Engineer, Chamber of Commerce Bldg., New Haven, Conn.

TOWN OF NAUGATUCK: About 1,600 lin.ft. of 3 in. Sheet Asphalt over 6 in. Concrete Base on Main Street. NOTE: Portland Cement for the above work will be furnished by the State. Plans and specifications at the office of E. C. Welden, Division Engineer, Chamber of Commerce Bldg., New Haven, Conn.

TOWN OF SPRAGUE: About 7,552 lin.ft. of 7 in. Waterbound macadam (alternate bids on either local stone or trap rock) on the Hanover and Baltic-No. Franklin Road. Plans and specifications with R. J. Jodoin, First Selectman, and at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn.

TOWN OF SEYMOUR: About 1,600 lin.ft. of Vitrified Brick over 6 in. Concrete Base and Plain Cement Concrete pavement on South Main Street. NOTE: Vitrified brick and Portland cement for the above work will be furnished by the State. Plans and specifications at the Selectmen's office and at the office of E. C. Welden, Division Engineer, Chamber of Commerce Bldg., New Haven, Conn.

All bids must be accompanied by a surety company bond or certified check not less than one-third of the cost of the work. The State Highway Commissioner reserves the right to reject any and all bids.

Dated at Hartford, Connecticut, Aug. 15th, 1922.

C. J. BENNETT,
State Highway Commissioner,
12 Washington St., Hartford, Conn.

Bids: Sept. 18.

Road Work

Charleston, Miss.

Bids will be opened at one o'clock P.M. September 18, 1922, at the Court House, Charleston, Miss., for grading and graveling about 18½ miles of road between Philipp and Cowart, Road Districts, Nos. 4 and 5, Tallahatchie County, Miss. Bids must be accompanied by check or Bidder's Bond for $10,000.00.

Approximating Quantities—
Grading 115,000 Cu.Yds.
Gravel Surfacing 33,000 Cu.Yds.
Bituminous Material 130,000 Sq.Yds.

Information, Plans and Specifications may be secured from
ELLIOTT & HARMAN ENGINEERING CO., Bank of Commerce and Trust Co. Bldg., Memphis, Tenn.

OFFICIAL PROPOSALS

Bids: Sept. 6.

Cast Iron Main Sewer

Rye, N. Y.

Sealed proposals will be publicly opened by the Trustees of the Village of Rye, N. Y., at the Village Municipal Hall, at 8.15 p.m., September 6, 1922.

Said proposals to cover the construction (both materials and labor) of a cast-iron main sewer according to plans and specifications filed with the Village Clerk.

Copies of the plans and specifications may be obtained from him, or from the engineer, G. Everett Hill, 45 Seventh Avenue, New York City, upon payment of $15, of which amount $10 will be refunded upon return of all papers, in good condition, on or before September 10th, 1922.

Approximately the work consists of:

About 2,000 feet of 16-inch and about 1,540 feet of 18-inch cast-iron pipe (with manholes and fittings) laid partly on piles and partly on concrete piers.

Each bid must be accompanied by a certified check for $5,000, as a guarantee that the bidder, if his bid be accepted, will enter into contract and execute the required bond.

Each bid must be made on blank forms to be obtained from the Village Clerk or the Engineer.

The Village reserves the right to reject any or all bids.

The Board of Village Trustees.
WILLIAM H. SELZER.
Village Clerk.
G. EVERETT HILL, Engineer,
45 Seventh Ave., New York.

Bids: Aug. 29.

Street Improvement

South Bend, Ind.

Notice is hereby given that sealed proposals will be received by the Department of Public Works of the City of South Bend, Ind., up to 10:00 o'clock A.M., of the 29th day of August, 1922, for the execution of the following work:

River Park Trunk sewer District No. 1. Estimated cost $70,000.00.

Complete drawings and specifications of said work are now on file in the office of the Department of Public Works in the City Hall, of South Bend, Indiana. The board reserves the right to reject any or all bids.

BOARD OF PUBLIC WORKS.
L. B. SLAUGHTER,
L. P. HARDY,
ALBERT F. HONER.
VERONICA C. SWEENEY,
Clerk Board.

Bids: Sept. 7.

Sewerage Pumping Station

Philadelphia, Pa.

Sealed proposals will be received at Room 216, City Hall, until 12 o'clock noon on Thursday, September 7, 1922 and opened at that time in Room 216, City Hall, for Southwest Sewage Pumping Station—40th Ward Lowland Drainage:

Contract No. 1—Sub-Structure and Superstructure.
Contract No. 2—Mechanical Equipment.
Contract No. 3—Electrical Equipment.
Contract No. 4—Plumbing System.
Contract No. 5—Heating and Ventilating Systems.

Inquire at Room 416, City Hall.
FRANK H. CAVEN,
Director.

OFFICIAL PROPOSALS

Bids: Sept. 9.

Storm Relief Trunk Sewers and Lateral Relief Sewers

Lima, Ohio.

Sealed proposals for the construction of Relief Trunk Sewers, Contracts No. 9 and 11, will be received at the office of the City Manager, Lima, Ohio, until 12 o'clock noon, Central Standard Time, Sept. 9th, 1922, and then will be publicly opened and read. The City reserves fifteen (15) days thereafter in which to act on the bids.

The work included under these contracts consists of construction, with all appurtenances, of Relief Trunk Sewers as mentioned above, a general summary of quantities follows:

Contract No. 9.

Total length of Sewer about 12,500 lineal feet, varying in size from 15 to 78 inches, all of Circular Section.

Contract No. 11.

Total length of Sewer about 27,000 lineal feet, varying in size from 12 to 78 inches, for Circular Sections, also two rectangular Sections 6 by 8 feet, and 8 by 9 feet, and a total length of 2,750 lineal feet, with all necessary appurtenances, special structures and manholes.

Copy of Plans, form of proposal, contract, bond and specifications, may be inspected at any of the following offices: Fuller & McClintock, 319 Summit Cherry Building, Toledo, Ohio, Fuller & McClintock, 170 Broadway, New York City; and B. F. Darling, Supervising Engineer, City Hall, Lima, Ohio.

Copies of plans and specifications with form of proposal, contract and bonds, may be obtained at the office of the Supervising Engineer, City Hall, Lima, Ohio. The following charge will be made for each set of plans and specifications:

Contract No. 9—Six Dollars ($6.00).
Contract No. 11—Seven Dollars ($7.00).

No charge will be made for proposal blanks, the above mentioned charge for Plans and Specifications, is a sale and not a deposit, no refund will be made, nor will plans and specifications be delivered unless the order is accompanied by a remittance.

The City Manager reserves the right to reject any or all bids, to waive any informalities in the bids and to accept any bid which is deemed most favorable to the interest of the City of Lima, Ohio.

C. A. BINGHAM,
City Manager.
B. F. DARLING,
Supervising Engineer.
Dated: August 19th, 1922.

Bids: Oct. 10.

Steam Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock, noon, Tuesday, October 10th, 1922, for furnishing one 6,000 kw. STEAM turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT,
Secretary.
GEO. G. EARL,
General Superintendent.
Aug. 10th, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 28.

Paving

Waterloo, N. Y.

For paving Stark Street from William Street north to North Street, North Street from Stark Street east to Taylor Street, Center Street from North Street south to the south line of the Catholic Church property, Swift Street from Main Street north to North Street, Church Street from Main Street north to Mechanic Street, William Street from the east line of the Episcopal Church property west to the west side of the entrance to Waterloo Hospital and also from Park Street to Stark Street, Race Street from Huff Street west to west side of lane at Traphagen's Coal Yard, Fayette Street from South Street north to Race Street, Huff Street from Race Street south to South Street, Park Street from Main Street north to William Street in the Village of Waterloo, N. Y., with bituminous macadam, penetration method.

Sealed proposals for the above mentioned work, endorsed "Proposals for Paving" will be received at the office of the Board of Trustees, Waterloo, N. Y., until 12 o'clock M. of August 28th, 1922.

The following estimate of quantities is to be considered only as approximate and bidders are required to form their own judgment of the quantities and character of the work by personal examination of the specifications and drawings relating to it, or such other means as they may prefer. Bidders must not assert any misunderstanding in regard to anything relating to the work.

The Contractors shall have no claim against the Village by reason of any variation between the quantities of the approximate estimate and the quantities of the work as done, nor on account of any misunderstanding or misconception of the nature and character of the work.

The several bids will be computed, tested and canvassed by the quantities and qualities mentioned in the following estimate:

21,700 square yards Bituminous Macadam Pavement (Penetration Method).

Each bid must be made out on the forms of proposals furnished by the Board of Trustees, and must be enclosed in a sealed envelope, addressed to the Board of Trustees, Waterloo, N. Y.

The price for which bidders will agree to execute and perform each class of work to be written in ink in both words and figures in the forms of bid, and all bids will be considered informal which do not contain prices set opposite each and all of the items which are called for in printed forms for bids, or which are otherwise not in conformity with this notice. Bids that contain any omissions, erasures, alterations, additions or items not called for in the itemized "Notice to Contractors," or that contain irregularities of any kind, will be rejected as informal. No bid will be allowed to be withdrawn for any reason whatever, after it has been deposited with the Board of Trustees.

Bidders are requested to state in their bids, under oath, their names and places of residence, the names of all persons interested with them in said bids, also that the bid is made without any connection with any person making another bid for the same contract, and that the bid is in all respects fair and without collusion or fraud.

Contractors will be paid monthly, approximate estimates, 90 per cent, of the amount due for work at that time done.

The person or persons whose bid shall be accepted, will be required to attend at the office of the Board of Trustees with the sureties offered by him or them, and execute the contract and bond within ten days from the date of the service of a notice to that effect, delivered to him in person or mailed to the address given in the bid. In case of failure or neglect to do so he or they will be deemed to have abandoned the contract.

A certified check payable to the order of the Village Treasurer of the Village of Waterloo, N. Y., will be required in the amount of $1,500.00 (Fifteen Hundred Dollars) to accompany each bid.

All deposits except that of the bidder whose bid shall have been accepted, will be returned to the person or persons making the same, within three days after the contract is awarded. If the successful bidder whose bid shall have been accepted, shall refuse or neglect to execute the contract within ten days after the notice that it has been awarded to him or them the amount of the deposit by him or them will be forfeited to and be retained by the Village of Waterloo, N. Y., as liquidated damages for such neglect or refusal; but if he or they shall execute the contract and bond within the time aforesaid, the amount of his or their deposit will be returned to him or them.

A bond in the sum of at least 50 per cent. of the contract price conditioned for the faithful performance of all parts of the contract with sureties to be approved by the Board of Trustees will be required.

The Board of Trustees reserves the right to reject all bids not deemed for the best interest of the Village and adjacent and contiguous property owners.

Plans may be seen at the office of the Board of Trustees, and specifications, forms of proposal, contract, etc., obtained from the Village Clerk.

The Contractor is required to furnish the Engineer, previous to the time fixed for receiving bids, samples of the bituminous material proposed to be used.

By order of the Board of Trustees of the Village of Waterloo, N. Y.

ADELBERT R. MOORE,
Village Clerk.

THIS ADVERTISING COSTS LITTLE

The cost of giving contracts NATIONAL publicity through the Official Proposal Columns of *Engineering News-Record* is only 40 cents a line an insertion. Figured on a circulation basis, the cost per line per thousand readers (1 1/3 cents) is extremely small, compared with the cost of other forms of publicity and the possibility of large waste distribution through publications of limited or general circulations. A single lower bid may save the cost of the advertising many times over.

Bids: Aug. 30.

Highway and Street Paving

Little Rock, Ark.

Sealed bids will be received until ten a.m. of Wednesday August 30th, 1922 at the auditorium of the Board of Commerce, Little Rock, Arkansas, by the Board of Commissioners of Pulaski Road Improvement District Number Ten, for the construction of approximately forty miles of streets and roads. The principal items of construction are as follows:

422,000	sq.yd. Asphalt Surface.
244,000	sq.yd. Five inch Concrete Base.
38,000	tons Broken Stone, additional macadam foundation.
3,100	cu.yd. Concrete in culverts and bridges.
202,000	cu.yd. Excavation.
34,000	lin.ft. Concrete Curb.
185,000	lin.ft. Concrete Road Header.
79,000	Roadway ft. Concrete Road Header.

All proposals or bids must be accompanied by either a certified check drawn on a responsible bank or trust company, or, by a bidders bond made by a surety company authorized to do business in the State of Arkansas. The certified check or bidders bond must be payable to H. S. Turner, Secretary of the Board of Commissioners of Pulaski Road Improvement District Number Ten, for a sum not less than five per cent of the aggregate of the proposals made.

Plans and specifications, as well as additional information, may be secured from the Engineer.

The successful bidder will be required to furnish satisfactory surety construction bond in a sum equaling the amount of the contracts awarded him.

The right is reserved to accept or reject any and all proposals, and to waive informalities.

ROY L. THOMPSON,
Chairman.

H. S. TURNER,
Secretary,
216 Gazette Bldg.,
Little Rock, Ark.

D. A. MACCREA,
Chief Engineer,
215 Gazette Bldg.,
Little Rock, Ark.

Bids: Aug. 29.

State Road Work

Baltimore, Md.

Sealed proposals for building eight sections of State Highway, as follows:

ALLEGHENY COUNTY—Cont. A-21—One section of state highway from Cumberland toward Old Town for a distance of 3.0 miles—(concrete).

FREDERICK COUNTY—Cont. F-57—One section of state highway from Middletown toward Burkittsville, a distance of 4.9 miles—(concrete).

HOWARD COUNTY——Cont. HO-27—One section of state highway from Laurel toward Scaggsville for a distance of 2.0 miles—(Gravel).

HOWARD COUNTY—Cont. HO-30—One section of state highway from Wash. Blvd. near Savage toward Simpsonville, a distance of 2.0 miles—(Gravel).

ANNE ARUNDEL COUNTY—Cont. AA-25—One section of state highway from Eastport toward Bay Ridge for a distance of 1.0 miles—(Concrete).

CALVERT COUNTY—Cont. C-13—One section of state highway from Yoes Corner toward Broomes Island, a distance of 2.5 miles—(Gravel).

CHARLES COUNTY—Cont. CH-21—One section of state highway from Nanjemoy to Riverside, a distance of 3.9 miles—(Gravel).

ST. MARYS COUNTY—Cont. SM-20—One section of state highway from Chingville to Valley Lee, a distance of 4.0 miles—(Gravel).

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 m. on the 29th day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 10th day of August, 1922.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids: Aug. 29.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P.M., advanced standard time, which is twelve o'clock noon eastern standard time on TUESDAY, the 29th day of AUGUST 1922, for the improvement of highways in the following counties:

ERIE	(one highway)	2.56
FRANKLIN	(one highway)	6.45
HAMILTON	(one highway)	3.57
LEWIS	(one highway)	6.47
ORANGE	(one highway)	4.06
SARATOGA	(one highway)	5.27
WASHINGTON	(one highway)	6.48
WYOMING	(one highway)	0.59

ALSO FOR THE REPAIR OF THE FOLLOWING: (COMPLETION)

(LIVINGSTON)	(one contract)	2.91
MADISON	(one contract)	2.36
OSWEGO	(one contract)	2.00
RENSSELAER	(one contract)	1.14
STUBEN	(one contract)	2.50

Maps, plans, specifications and estimates may be seen and proposals forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or repaired. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "GENERAL INFORMATION FOR BIDDERS" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 9.

Concrete Reservoir and Laying of Pipe

Voorheesville, N. Y.

Notice is hereby given that sealed proposals will be received by the Board of Trustees of the Village of Voorheesville, N. Y., at their office in the "Hose House," in the village of Voorheesville, N. Y., until three (3:00) o'clock P.M. (daylight saving time), on the ninth (9th) day of September, 1922, for the construction of a concrete reservoir and hauling and laying of about three and one-half (3½) miles of eight (8 in.) inch Class "B" cast iron water pipe and appurtenances.

All proposals must be made upon printed forms, to be obtained from the engineer; and the unit prices written in words and figures, and accompanied by cash or a certified check, made payable to the Village of Voorheesville, N. Y., for one thousand ($1,000.00), Dollars.

All proposals must be enclosed in a sealed envelope, directed to the Board of Trustees, Village of Voorheesville, N. Y., and endorsed upon the outside of the envelope "Proposal for Water System."

The Board of Trustees reserves the right to reject any or all proposals.

By order of the Board of Trustees of the Village of Voorheesville, New York.

GILBERT H. DARING,
Village Clerk,
Voorheesville, N. Y.

W. W. CHADSEY,
Civil and Sanitary Engineer,
434 State Street,
Schenectady, N. Y.

Bids: Sept. 5.

High School

Smyrna, Del.

Public notice is hereby given that the Board of Education, of the Smyrna Special School District and Delaware School Auxiliary Assocaition will meet at the office of the Delaware School Auxiliary Association, duPont Building, Wilmington, Delaware, on Sept. 5th, 1922, at the hour of 11 o'clock, Daylight Saving Time, and then and there will receive and open sealed proposals for furnishing labor and material to erect and complete a new High School Building for the Town of Smyrna, Kent County, State of Delaware.

The work for which bids or proposals are hereby invited will consist of semi-fireproof building constructed of brick and concrete walls, with timber and reinforced concrete floor and roof construction. The size of building is approximately 150 ft. x 80 ft. The building will be one and two stories high and contain about 14 Instruction Rooms and Auditorium.

Bids will be received for the erection complete of the entire building under one contract, or for the following divisions separately:

1—For the General Construction, which includes all masonry, carpentry, steel and iron, roofing, painting, and all work kindred thereto.

2—For Plumbing and Gas Fitting, and all work kindred thereto.

3—For Heating and Ventilating and all work kindred thereto.

4—For Electrical Work and all work kindred thereto.

The Board of Education and Delaware School Auxiliary Association reserve the right to accept or reject any or all proposals and to waive informalities at their discretion.

All bids must be in sealed envelopes addressed to the Board of Education of the Smyrna Special School District, care of Delaware School Auxiliary Association, du Pont Building, Wilmington, Delaware, endorsed "Proposals for (Naming the branch of work covered by bid)," with the name of the bidder.

No bid will be considered unless accompanied by a certified check to the order of the Board of Education of the Smyrna Special School District to the amount of 2% of the amount of the bid or a bid bond of like amount, binding the bidder to execute the contract if awarded him. The terms of the proposal with surety required are fixed by the specifications.

Copies of the plans, specifications will be on file in the office of the Delaware School Auxiliary Association, du Pont Building, Wilmington, Delaware, and at the Smyrna High School, Smyrna, Delaware, for the purpose of examination and estimating.

OFFICIAL PROPOSALS

There will be a limited number of copies of the plans and specifications which will be loaned to the prospective bidders on deposit of a certified check to the order of Delaware School Auxiliary Association in the sum of $25.00. If plans and specifications are returned on or before the submission of estimates, the check will be returned, but should the plans and specifications be not returned, the deposit may become forfeited. Applications for the plans and specifications should be made to the Delaware School of Auxiliary Association, Room 8124 duPont Building, Wilmington, Delaware.

THE BOARD OF EDUCATION OF THE SMYRNA SPECIAL SCHOOL DISTRICT, SMYRNA, DEL.
W. O. HOFFECKER, President.
DELAWARE SCHOOL AUXILIARY ASSOCIATION.
DR. JOS. H. ODELL, President.

Make Plans Accessible to Distant Bidders

Plans and specifications for inspection by distant bidders may be filed at any of *Engineering News-Record* offices (without charge). Or a sufficient supply may be deposited at such of our offices as seem desirable, subject to your usual requirements in the matter of deposits, etc. (We assume full responsibility for return of plans or deposits). Therefore, Contractors in all parts of the country can bid with equal convenience on contracts advertised in *Engineering News-Record*.

Bids: Sept. 6.

Canal Water Power Development

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Wednesday, September 6th, 1922, at which place and hour they will be publicly opened and read, for the development of canal water power, pursuant to the provisions of Chapter 532 of the Laws of 1922, as follows:

A-3
CRESCENT POWER HOUSE,
COHOES, N. Y.

For constructing a power house and work incidental thereto, at Crescent Dam, Cohoes, N. Y.

Sheets 1 to 10 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantity, proposal blanks forms of contract and bonds required, and other information for proposers, may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Eastern Division, Wedgeway building, Schenectady, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division, at Rochester, N. Y.; at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

OFFICIAL PROPOSALS

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposit of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provde suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner, if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE,
Superintendent of Public Works.

Bids: Sept. 5.

School Building

Teaneck, N. J.

SEALED PROPOSALS will be received by the Board of Education of the Township of Teaneck in Bergen County, N. J. on September 5th, 1922, at 8 P. M. at School No. 3, for (a) General Construction, (b) Heating and Ventilating, (c) Plumbing and (d) Electrical Work for the new school building to be known as School No. 4 on West Englewood Avenue and Essex Lane, Teaneck, N. J.

All to be in strict accordance with the plans and specifications prepared for same by C. V. R. Bogert, architect, 167 Main Street, Hackensack, N. J., to whom all applications for plans and specifications and other information must be made. No proposal will be considered that is not submitted upon the blank forms as prepared by and to be obtained from the Architect with the proper envelope in which same is to be inclosed. All bids must adhere strictly to the plans and specifications and no alternate bid will be received or considered except as called for on the authorized form.

Each proposal must be accompanied by a certified check in the amount of Two Thousand ($2,000) Dollars for General Construction, Five Hundred ($500) Dollars for Heating and Ventilating, Two Hundred ($200) Dollars for Plumbing and Two Hundred ($200) Dollars for Electrical Work, drawn to the order of the Board of Education as a guarantee that the bidder whose proposal is accepted will enter into a contract with the Board of Education and furnish a satisfactory bond for the faithful performance of the work.

Copies of the plans and specifications may be seen at the office of the Architect, or a set may be borrowed from the Architect for the personal use of the contractor for estimating by depositing with the Architect the sum of Twenty-five Dollars, which will be refunded upon the return of said plans and specifications.

The Board of Education of the Township of Teaneck reserves the right to accept or reject any or all proposals submitted, if deemed for the best interests of the Board to do so.

Dated Teaneck, N. J. August 1st, 1922.

P. A. SPENCER,
President.

J. H. RANGES, District Clerk,
West Englewood, N. J.

OFFICIAL PROPOSALS

Bids: Sept. 5.

Repairs to Dam No. 537

Beacon, N. Y.

Sealed proposals will be received by the City Council at its office No. 525 Main Street, Beacon, N. Y., on or before eight (8) o'clock P. M., Daylight Saving Time, Tuesday, September Fifth (5th), 1922, for repairs to Dam No. 537, South Mountain, Mt. Beacon Reservoir, Beacon, N. Y., which proposals will be opened by the Mayor or presiding officer on that day and time or on such subsequent day as the council may adjourn for that purpose.

No proposal shall be considered unless accompanied by the written consent of two sureties, conditioned that if the proposal be accepted, they will execute and deliver a bond with the bidder in a penalty to be fixed by the council conditioned for the construction of the work at the price and upon the terms proposed, according to the plans and specifications therefor, within such reasonable time as the council may limit, and subject to the supervision and approval of the commissioner of public works as the specifications shall provide.

Prospective bidders are requested to visit the site of the proposed work in order to satisfy themselves as to the scope and hazards of the work.

Plans and specifications, form of proposal, bond and contract may be obtained at the office of the city, No. 525 Main Street, Beacon, New York, or at the office of George W. Krieger, Jr., Consulting Engineer, Poughkeepsie, N. Y. upon the deposit of $15.00, which amount will be refunded upon the return of the plans and specifications in good condition.

Quantities of work to be done are approximately as follows:

PROPOSAL TO THE
CITY COUNCIL OF THE CITY OF BEACON, DUTCHESS COUNTY, N. Y.

Quantity	Unit of Measure	Item
900	Cubic Yds.	Concrete 1:2:4
3,400	Pounds	Reinforcing bars 1¼ in.
3,700	Pounds	Reinforcing bars 1 in.
5,200	Pounds	Reinforcing bars ¾ in.
1,100	Lin. Ft.	Drains, Wrought Iron Pipe, 4 in. or smaller
250	Lin. Ft.	2 in. holes drilled in rock
80	Lin. Ft.	1¼ in. holes drilled in rock
1,000	Lin. Ft.	1¼ in. holes in old masonry
350	Cubic Yds.	Rock Excavation

SEPARATE BID FOR UPSTREAM WORK
(This work may or may not be required)

6,000	Gunite
3,900	Triangular wire mesh 0.65 lb. sq.ft.

The proposal shall be accompanied by a certified check drawn upon an incorporated State or National Bank or Trust Company in good credit, within this State, payable to the order of the City of Beacon for five per cent of the amount of the bid. The successful bidder will be required to give a satisfactory bond for the faithful performance of the agreement in amount equal to fifty per cent of the value of the contract.

The City Council of the City of Beacon reserves the right to reject any or all bids.

By order of the City Council of the City of Beacon.

MARCUS G. MAC LAUGHLIN,
Commissioner of Public Works.

Bids: Sept. 5.

Storm Sewer

Plainfield, N. J.

Bids will be received by the Common Council of the City of Plainfield, N. J., at the City Hall on Tuesday, September 5, 1922, at 8:30 p.m. (daylight saving time) for constructing about 1,000 lin.ft. of 7 ft. — 0 in. x 2 ft. — 5 in. reinforced concrete storm sewer and appurtenances.

Amount of certified check, $1,000.00.

Amount of surety company bond, 100% of contract price.

Common Council reserves the right to reject any or all bids or to waive defects in bids.

Plans and specifications may be obtained from City Engineer.

ALEXANDER W. VARS,
City Engineer.

Dated August 17, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 30.

Concrete Arch and Girder Bridge

Richland (Pulaski), N. Y.

Sealed proposals will be received at the office of the Town Clerk of the Town of Richland, in the Village of Pulaski, Oswego County, New York, until Wednesday, the 30th day of August, 1922, at 1:00 P.M., for the building of a reinforced concrete arch and girder bridge across the Salmon River in the said Town.

Plans and specifications may be seen at the office of

1. Mr. C. A. Jewell, Town Clerk, Pulaski, N. Y.

2. Concrete-Steel Engineering Co., Park Row Bldg., New York.

Copies of the plans and specifications, including form of proposal, may be obtained from the Concrete-Steel Engineering Co. upon making a deposit of $20.00, which will be refunded upon the return of the plans and specifications in good order.

Each proposal must be accompanied by an unconditional certified check on a national bank for 5% of the contract price, made payable to the order of the "Supervisor of the Town of Richland" as evidence of good faith, and to be forfeited to the Town as liquidated damages in case of failure on the part of the bidder to enter into contract for the execution of the work and to furnish a satisfactory surety bond as hereinafter stipulated. Bidders' certified checks will be returned after consideration of the bids, and the check of the successful bidder will be returned as soon as the contract is signed.

The successful bidder will be required to furnish a bond acceptable to the Town of Richland in a sum equal to 50% of the amount of the contract.

The blank form of proposal attached to the specifications shall be used in making out the bid.

The party or parties to whom the contract may be awarded will be required to execute the contract with surety within ten days from the date of service of notice to that effect, and in case of failure or neglect to do so, he or they will be considered as having abandoned it.

Envelopes containing proposal must have endorsed thereon:

"Proposal for Pulaski Bridge."

The right is reserved by the Town to accept any proposal, or to reject any or all proposals.

TOWN OF RICHLAND.
By JOHN BUSH,
Town Superintendent.

Bids: Sept. 8.

Bridge

Vicksburg, Miss.

Sealed alternate bids will be received by the Board of Supervisors of Warren County, Miss., at the office of the Chancery Clerk, until 12 o'clock noon, Friday, September 8, 1922, and at that time publicly opened for a bridge over Big Black River at Baldwin's Ferry, 12 miles from Vicksburg, Miss., on the Baldwin's Ferry Highway, between Vicksburg and Raymond.

The principal items of work are as follows, approximately:

346.20	Cu.Yds. Class "A" Concrete.
9,730.	Lbs. Reinforcing Steel.
128,000	Lbs. Structural Steel.
717.8	Sq.Yds. Asphalt Paving.
307	Lin.Ft. Gas Pipe Railing.
183,940	Ft. B.M. Creosoted Lumber.
10,310	Ft. B.M. Untreated Lumber
6,950	Lin.Ft. Creosoted Piling.
1,200	Lin.Ft. Untreated Piling.

and for all materials in connection with said work.

Plans and specifications are on file in the office of the Chancery Clerk, Vicksburg, Miss., and the office of Warren County Dept. of Highways. On receipt of check for $5.00, contractors will be furnished with a set of plans and Bidder's Blank.

Any additional information may be secured from H. R. Rhodes, Warren County Highway Engineer, Vicksburg, Miss. The right to reject any or all bids is reserved.

Cash or certified check for $2,500.00 made payable to the Board of Supervisors of Warren County, must accompany each bid as evidence of good faith and as a guarantee that if awarded the contract, the bidder will execute the contract and give bond as required.

By order of the Board of Supervisors.
J. G. SHERARD,
Chancery Clerk.

OFFICIAL PROPOSALS

Bids: Sept. 5.

Two Steel Swing Drawbridges

Fort Lauderdale, Fla.

Sealed proposals for the construction of two steel highway swing drawbridges will be received by the Board of County Commissioners of Broward County, Florida, until 11:00 A.M., September 5, A. D. 1922, and then publicly opened.

Bridge No. 1, is proposed across the Florida Intra-Coastal Canal on the line of the Pompano Beach Road, near Pompano, Florida.

Bridge No. 2 is proposed across the same waterway on the line of the Dania Beach Road, near Dania, Florida.

Specifications for materials and general requirements for superstructures, location and profile of the crossings, and detailed specifications for the abutments, are on file and may be examined at the office of the Clerk of the Board. A complete set of said specifications for both bridges will be furnished prospective bidders by the Engineer, for $5.00 to cover cost of preparation. This amount will not be returned.

Bidders shall submit with their proposal general plans, stress sheets and typical details of the superstructure, and detail of the center piers of the bridges covered by their proposal, subject to the requirements of the specifications furnished by the Engineer.

All bids shall be submitted upon blank forms which may be obtained free of charge from the Engineer.

Each proposal shall be accompanied by a certified check for $500.00 on each bridge, payable to the Chairman of the Board of County Commissioners, as evidence of good faith, and check of the successful bidder will be retained by the said Board as liquidated damages for the cost and expense incurred should the said bidder fail to enter into contract for the work with satisfactory bond as specified, within fifteen days after the acceptance of his proposal.

Any contract awarded under the terms of this advertisement will be subject to granting of permit by the War Department of the United States.

The right is reserved to separate or combine bids; to waive informalities in bids and to reject any and all bids.

BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA.
H. G. WHEELER, Chairman.
FRANK A. BRYAN, Clerk.

Dated at Fort Lauderdale, Florida, this tenth day of August, A. D. 1922.
H. C. DAVIS, Engineer.

Bids: Aug. 29.

Drainage and Ditch Improvement Re-Advertised

Wooster, Ohio.

Notice is hereby given that sealed proposals for the construction of the JOINT WAYNE-HOLMES COUNTY DITCH IMPROVEMENT will be received up until twelve o'clock noon, Eastern Standard Time, on Tuesday, Aug. 29, 1922, at the office of the Secretary of the Joint Board of County Commissioners of Wayne and Holmes Counties at the Court House at Wooster, Ohio.

The work to be done consists of the draining and dredging of Killbuck Creek in Wayne and Holmes Counties, in all the distance of One Hundred and Fifty-Six Thousand (156,000) feet.

The yardage of earth to be moved is estimated at about 1,780,000 cubic yards, consisting principally of dipper dredge work. The date of completion will be eighteen months from the date of awarding of contract.

A certified check in the amount of $10,000.00 payable to the Joint Board of County Commissioners of Wayne and Holmes Counties, Ohio, must accompany each proposal. Checks of unsuccessful bidders will be returned within ten days of the awarding of the contract.

The said board reserves the right to reject any or all bids. Plans, specifications and proposals are on file at the Secretary's office at the Court House, Wooster, Ohio, or same will be mailed upon application when same is accompanied by a deposit of $20.00, which will be refunded if plans are returned in good condition.

By order of the Joint Board of County Commissioners of Wayne and Holmes Counties.

CHAS. F. SCHOPF,
Secretary.

OFFICIAL PROPOSALS

Bids: Sept. 5.

State Highway Work

Trenton. N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the construction of the following:

Route No. 7, Section No. 1, Corlies Avenue, Neptune Township, Monmouth County, estimated amount of Warrenite Bitulithic surface on a Portland cement concrete foundation is 18,765 square yards.

Bids will be received at the office of the State Highway Commission at the Broad Street Bank Building, Trenton, New Jersey, on Tuesday, September 5th, 1922, at 11 A. M. STANDARD TIME, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of Ten Dollars ($10.00) upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated therein and as required by the 1922 specifications, same to be inclosed in sealed special addressed envelopes bearing the name and address of bidder and the name and section of the route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that said certified check shall not be less than $500,00 or more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelope will be furnished on application. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this state, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 7.

Concrete Bridge Construction

New Braunfels, Texas.

Sealed proposals for constructing a reinforced concrete highway bridge across the Comal River on San Antonio Street in the City of New Braunfels, Texas, and addressed to the Hon. F. G. Blumberg, Mayor, will be received at the office of the City Clerk, until 3 p.m., Thursday, September 7th, 1922.

The structure consists of a 20 ft. wide roadway with two 5 ft. sidewalks 410 ft. long. The roadway is 43 ft. high above river level, and is carried by five arch spans of two ribs each and by two girder spans of 30 ft. each. The foundation conditions are unusually simple.

The Contractor is required to maintain traffic over existing bridge necessitating the moving of one timber approach trestle 142 ft. long. Five car siding space is available for use of Contractors within one block of west end of bridge. Water will be furnished free by the City.

Instructions, proposal blanks, specifications and detailed plans may be seen at the office of A. D. Nuhn, City Clerk, New Braunfels, Texas, and may be obtained from the Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, Texas, upon payment of $15.00, which will be refunded only to bona-fide bidders.

Proposals must be accompanied by a certified or cashier's check in the sum of not less than 5% of the amount bid. Bidders must fulfill conditions specified in the "Instruction to Bidders." The City reserves the right to reject any or all bids.

F. G. BLUMBERG, Mayor.

OFFICIAL PROPOSALS

Bids: Sept. 8.

Highway Route No. 16 Section No. 4

Somerville, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Somerset for the following: The construction of State Highway Route No. 16, Section No. 4, from Pluckamin to Somerville, consisting of 67,749 Square Yards "Surface Type C," one course Reinforced Cement Concrete Pavement, with Drains and Appurtenances.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920.

Bids will be received at the Court House at Somerville, on

FRIDAY, SEPTEMBER 8th, 1922,

at 11:00 a.m., Daylight Saving Time (10 A.M. Eastern Standard Time).

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of H. C. Van Emburgh, County Engineer, at the Court House, Somerville, and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to H. C. Van Emburgh, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board of Chosen Freeholders of the County of Somerset, and bearing the name and address of the bidder and the name and section of the route on the outside. Bids must be accompanied by a certified check drawn to the order of Edwin Garretson, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to H. C. Van Emburgh, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Somerset, passed at a meeting held on Friday, August 4, 1922.

WM. S. WOODRUFF,
Clerk.

Bids: Aug. 28.

Concrete Road Construction

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Mayor and Council of the Borough of Freehold, N. J., for the reconstruction of Throckmorton Street and opened and read in public in the Municipal Building on Monday, August 28th, 1922, at eleven a.m. day light saving time.

The work consists of approximately 3,000 cu.yd. of excavation; 10,000 sq.yd. of reinforced concrete and 4,000 lin.ft. of concrete curb.

Drawings and specifications for the proposed work, prepared by Chas. A. Niles, Borough Engineer, are on file at the office of said Engineer at the Municipal Building, Freehold, N. J., and plans and proposal forms may be obtained upon the deposit of $5.00, which amount will be refunded upon return of the plans before the time specified for opening the bids.

All bids must be submitted on the forms furnished by the Borough, enclosed in a sealed envelope, bearing the name and address of the bidder, the name of the proposed work, and addressed to the Mayor and Council of the Borough of Freehold. All bids must be accompanied by a certified check for a sum not less than 10% of the amount bid and a surety company certificate stating that said surety company will provide the bidder with the required bond.

The Borough Council reserves the right to reject any or all bids if deemed to the best interests of the Borough to do so.

H. M. BURKE,
Borough Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 30.

State Highway Construction

Raleigh, N. C.

Sealed bids for the construction of the following projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10 a.m., on the 30th day of August, 1922, when they will be opened and read:

Hard surface (Concrete or Asphaltic Paving projects), including grading, reinforced concrete or cast iron pipe, structures, etc.

Project No.	County	Length (Miles)
184	Pitt	7.14
328	Columbus	7.03
412	Durham	8.80
460	Orange	9.87
528	Davidson	10.24
589	Rockingham	9.81
590	Rockingham	2.10
608	Anson	7.88
615	Cabarrus	3.88
658	Mecklenburg	9.55
761	Surry	2.22
765	Surry	3.40
785	Wilkes	2.52
821	Cleveland	1.58
822	Cleveland	10.47
901A	Buncombe	7.57
876	Rutherford	4.83

Topsoil, Sand Clay, or Gravel projects, including grading, drainage pipe, structures, etc.

106	Bertie	7.12
157A	Martin	12.41
157B	Martin	12.36
712	Ashe	11.06
784	Wilkes	4.97
847	McDowell	3.84
882	Rutherford	15.80

MACADAM PROJECTS

Penetration or waterbound Macadam Projects, including drainage pipe, structures, etc.

380	Pender	8.98

BRIDGE PROJECTS

317	Brunswick	1-140 ft. steel through span.
589	Rockingham	15-40 ft. spans and 1-150 ft. arch.
673	Davidson	5-150 ft. R.C. Arch Spans.
848	McDowell	4-45 ft. R.C. Deck Girders.
858	Mitchell	1-125 ft. R.C. Arch and 2-45 ft. Deck Girders.

Specifications, proposal forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh office, or in the offices of the District Engineer.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon Payment of Five ($5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

Bids: Aug. 25.

Memorial Hospital

Butler, Pa.

Contractors who expect to submit proposals for the construction of the Butler County Memorial Hospital to be erected at Butler, Pa., and for which requests for proposals will be advertised shortly, are requested to send their names and addresses on or before noon of Friday, August 25, 1922, to the Butler County Memorial Hospital Committee, c/o Community Building, Butler, Pa., with the following information:

a. A list of buildings of similar character they have constructed within the past ten years.

b. Testimonials from the owners, committees in charge, or architects of such building that the work was completed satisfactorily by the contractor, or if a firm or corporation, by the present officers of such firm or corporation.

c. Any further information that the contractor may desire to furnish.

The committee in charge of said project desires this information in advance of the time actual proposals or bids are requested or submitted for the purpose of investigation and to the end that when bids are received the contract may be let promptly.

BUTLER COUNTY MEMORIAL HOSPITAL BUILDING COMMITTEE.

OFFICIAL PROPOSALS

Bids: Sept. 6.

State Highway Work

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the County of Monmouth for the following:

Construction of State Highway Route No. 4, Section No. 5A, Maple Avenue, Red Bank, estimated amount of sheet asphalt surface on a portland cement concrete foundation is 27,307 square yards.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920.

Bids will be received at the Court House at Freehold, N. J., on Wednesday, September 6th, 1922, at 11:00 M. Daylight Saving Time.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of George K. Allen, Jr., County Engineer, at Red Bank, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to George K. Allen, Jr., County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board Chosen Freeholders of the County of Monmouth and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of C. Asa Francis, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to George K. Allen, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Monmouth passed at a meeting held on Wednesday, May 24th, 1922.

WILLIAM A. STEVENS,
Clerk.

Bids: Sept. 9.

Cast Iron Water Pipe and Appurtenances

Voorheesville, N. Y.

Notice is hereby given that sealed proposals will be received by the Board of Trustees of the Village of Voorheesville, N. Y., at their office in the "Hose House" in the Village of Voorheesville, N. Y., until three (3:00) o'clock p.m. (daylight saving time), on the ninth (9th) day of September, 1922, for the furnishing of about four hundred and fifty (450) tons of eight (8") inch Class "B" cast iron water pipe and appurtenances.

All proposals must be made upon printed forms, to be obtained of the engineer; and the unit prices written in words and figures, and accompanied by cash or a certified check, made payable to the Village of Voorheesville, N. Y., for five (5%) per cent of the amount of the proposal.

All proposals must be enclosed in a sealed envelope, directed to the Board of Trustees, Village of Voorheesville, N. Y., and endorsed upon the outside of the envelope "Proposal for Water Pipe or Appurtenances."

The Board of Trustees reserves the right to reject any or all proposals.

By order of the Board of Trustees of the Village of Voorheesville, N. Y.

GILBERT H. DARING,
Village Clerk,
Voorheesville N. Y.

W. W. CHADSEY,
Civil and sanitary engineer,
434 State Street,
Schenectady, N. Y.

OFFICIAL PROPOSALS

Bids: Sept. 14.

Paving, Curbing, Storm Sewers, etc.

Mobile, Ala.

Sealed bids will be received until noon Thursday, Sept. 14, 1922, by the City Commission of the City of Mobile, Alabama, for the following:

One course Concrete Paving six inches in thickness—29,756 square yards. Concrete Curbing eighteen inches deep by five inches wide—14,512 lin.ft. Double strength storm sewers 12 inch—1,334 ft. 15 inch—1,160 ft. 18 inch—2,405 ft. 21 inch—522 ft.

Standard Storm sewers, 6 inch—3,036 ft. 10 inch—1,872 ft. 12 inch—1,340 ft. 15 inch—315 ft. 24 Standard Manholes—83 Standard Inlets and 19 Standard Special Basins. A deposit of one thousand dollars will be required to accompany each bid. 1—For Paving and Curbing. 2—For Storm Sewers. Plans and specifications are on file in the City Engineer's office and can be seen on application. The right is reserved to reject any or all bids.

R. V. TAYLOR,
Commissioner of Streets.
WRIGHT SMITH,
City Engineer.

National Publicity Offers a Two-Fold Advantage

Giving calls for bids National publicity opens the way for additional and possibly lower offers from outside bidders to whom work can be let, if desired.

Then too, local contractors, seeing your contracts advertised Nationally will figure closer, realizing that the field of competitors for the work is greatly enlarged.

An advertisement printed in the Official Proposal Columns of *Engineering News-Record* brings the contract to the attention of not only local bidders but, in addition, any others who might be interested.

Bids: Aug. 31.

Sewage Treatment Works Contract A

Marion, Ohio

Sealed proposals will be received at the office of the Director of Public Service in the City Hall, Marion, Ohio, until 12 o'clock noon (Official Marion Time), August 31st, 1922, and then publicly opened and read, for the construction of Sewage Treatment Works, Contract A.

The work contemplated comprises the construction of grit chambers, two-story settling tanks, pumping station, dosing tanks, trickling filters, final settling tanks, sludge-drying beds, buildings and appurtenances. The following quantities give a general idea of the amount and character of the work to be done:

Excavation	46,000 cu.yd.
Concrete	8,750 cu.yd.
Steel Reinforcement	250 tons
C. I. Piping	225 tons
Stone for Trickling Filters	22,500 cu.yd.
Buildings	50,000 cu.ft.

Copies of plans and specifications and blank proposals may be obtained at the office of the Director of Public Service, City Hall, Marion, Ohio, or at the office of George B. Gascoigne, 648 Leader-News Building, Cleveland, Ohio, after August 16th, 1922. A deposit of Twenty Dollars ($20.00) will be required for each set of plans and specifications taken from the above offices. If a bid is submitted this deposit will be refunded upon the return of said plans and specifications in good condition. Similar deposits will be required for additional sets of plans and specifications taken from the above offices, there being no refund for their return. All checks for said plans and specifications shall be made payable to the City of Marion.

The proposals shall contain the full name and address of the party or parties making the same and all persons interested therein, and shall be accompanied by a proposal bond signed by a surety company authorized to do business in the State of Ohio or by a certified check on a solvent bank located in Marion for Ten Thousand Dollars ($10,000.00) made payable to the City of Marion, as surety that if the bid is accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Director of Public Service and delivered at the office of the Director of Public Service in the City Hall, Marion, Ohio, previous to 12 o'clock noon (Official Marion Time) on the day specified.

The City, through its Director of Public Service, reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid which is deemed most favorable to the City of Marion, Ohio.

THE CITY OF MARION, OHIO
E. A. SCHULTZ,
Director of Public Service.

OFFICIAL PROPOSALS

Bids: Sept. 7.

Sanitary Sewerage System and Sewage Disposal Plant

Spring Valley, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Spring Valley, Rockland County, New York, at the Village Offices, in the Village of Spring Valley, on the 7th day of September, 1922, at the hour of 8 P.M., Daylight Saving Time, for the construction of a sanitary sewerage system and sewage disposal plant. The work will in general consist of about

11.2 miles of 8-inch vitrified pipe sewers, 0 to 20 feet deep.
0.66 miles of 10-inch vitrified pipe sewers, 0 to 18 feet deep.
0.69 miles of 12-inch vitrified pipe sewers, 0 to 24 feet deep.
0.19 miles of 8-inch cast iron pipe sewers, 0 to 12 feet deep.
0.01 miles of 10-inch cast iron pipe sewers, 6 to 10 feet deep.
257 manholes, 0 to 22 feet deep.
Two small sewage lift stations.
One sewage disposal plant.
And various appurtenances of and extensions to the above-mentioned items.

Plans and specifications are on file and may be seen at the office of the Village Clerk, Spring Valley, N. Y., or at the office of the engineer, Waldo S. Coulter, 114 Liberty Street, New York, N. Y. Complete sets of information for bidders, form of contract, specifications and plans may be obtained from the engineer upon a deposit of $15, of which $7.50 will be refunded upon return of same in good condition by October 1, 1922.

Each bid must be accompanied by a certified check for Five Thousand Dollars ($5,000) payable unconditionally to the Treasurer of the Village of Spring Valley, which check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award enter into and execute a contract for the performance of the work to be done under said contract. Said bid must be in a sealed envelope and marked "Proposal for a Sewerage System and Disposal Plant."

The successful bidder will also be required to furnish a Surety Company bond to the Village of Spring Valley in the amount of Twenty-five Thousand Dollars ($25,000) for the faithful performance of the work to be done under said contract, said bond to be approved by the Village Attorney.

In case of failure to execute the contract and furnish the required Surety Company bond within ten (10) days after due notice that the contract has been awarded to him, the successful bidder shall forfeit his deposit to the Village of Spring Valley as liquidated damages.

The right to reject any or all bids is reserved by the Board of Trustees. All of said work must be completed on or before December 7, 1923.

BOARD OF TRUSTEES OF THE VILLAGE OF SPRING VALLEY.
THEODORE B. BOHR,
President.

JOHN S. VAN ORDEN,
Village Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 31. .

Main Sanitary Sewer Contract B

Marion, Ohio

Sealed proposals will be received at the office of the Director of Public Service in the City Hall, Marion, Ohio, until 12 o'clock noon (Official Marion Time), August 31, 1922, and then publicly opened and read, for the construction of Main Sanitary Sewer—Contract B.

The following quantities give a general idea of the amount and character of the work to be done:

8,400 lin.ft. of 42 in. circular sewer.
1,060 lin.ft. of 39 in. circular sewer.
20 manholes.
2 special concrete structures.

Copies of plans and specifications and blank proposals may be obtained at the office of the Director of Public Service, City Hall, Marion, Ohio, or at the office of George B. Gascoigne, 648 Leader-News Building, Cleveland, Ohio, after August 16, 1922. A deposit of Ten Dollars ($10.00) will be required for each set of plans and specifications taken from the above offices. If a bid is submitted this deposit will be refunded upon the return of said plans and specifications in good condition. Similar deposits will be required for additional sets of plans and specifications taken from the above offices, there being no refund for their return. All checks for said plans and specifications shall be made payable to the City of Marion.

The proposal shall contain the full name and address of the party or parties making the same and all persons interested therein, and shall be accompanied by a proposal bond signed by a surety company authorized to do business in the State of Ohio or by a certified check on a solvent bank located in Marion for Five Thousand Dollars ($5000.00) made payable to the City of Marion, as surety that if the bid be accepted a contract will be entered into and the performance of it properly secured.

No proposal will be entertained unless made on the blanks furnished by the Director of Public Service and delivered at the office of the Director of Public Service in the City Hall, Marion, Ohio, previous to 12 o'clock noon (Official Marion Time) on the day specified.

The City, through its Director of Public Service, reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid which is deemed most favorable to the City of Marion, Ohio.

THE CITY OF MARION, OHIO.
E. A. SCHULTZ,
Director of Public Service.

Bids: Sept. 1.

Highway Work

Somerville, N. J.

Notice is hereby given that sealed bids will be received by the County of Somerset for the following: The construction of State Highway Route No. 9, Section 7A, from Grove Street, through East Main Street, North Gaston Avenue and Union Avenue to the easterly borough line of Somerville, consisting of 12,450 sq.yd. of "Surface Type C" one course reinforced cement concrete pavement with intersections, drains and appurtenances.

Work is to be performed under County Reimbursement Act, Chapter 183, Laws of 1918, and amended by Chapter 317, Laws of 1920.

Bids will be received at the Court House at Somerville on Friday, Sept. 1st, 1922, at 10.30 a.m., Daylight Saving Time, (Eastern Standard Time, 9.30 a.m.).

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of H. C. Van Emburgh, County Engineer, at Court House, Somerville, and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to H. C. Van Emburgh, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board of Chosen Freeholders of the County of Somerset and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of Edwin Garretson, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to H. C. Van Emburgh, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Somerset passed at a meeting held on Friday, August 4th, 1922.

WM. S. WOODRUFF, Clerk.

Largest Circulation of Any Technical Paper

Engineering News-Record's circulation—over 30,000 weekly—is the largest of any technical paper printed. It includes among its readers practically every contractor, dealer, and manufacturer in the country who is interested in bidding on public works contracts—either local or outside of his immediate vicinity.

Bids: Sept. 6.

Refrigeration Work

Marcy, N. Y.

Sealed proposals for Refrigeration Work—Kitchen for Acute Patients Building, at the Utica State Hospital, Marcy Division, Marcy, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock P.M. (Standard Time) on Wednesday, September 6, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specification No. 3866, including Addenda No. 1. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Utica State Hospital, Utica, N. Y., at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

L. M. FARRINGTON,
Secretary, State Hospital Commission.
Dated: August 16, 1922.

Bids: Sept. 14.

Steel Super-structure

Nashville, Tenn.

Sealed bids will be received by the Department of Highways State of Tennessee, at Nashville, Tennessee, until ten o'clock a.m., Thursday, September 14, 1922, and opened publicly at that place and hour for the construction of the steel super-structure of Federal Aid Project 16, being a bridge over Cumberland River near Clarkesville, having 3 steel spans aggregating approximately 640 feet of span.

Plans and specifications are on file in the office of the Chief Engineer, Department of Highways, Nashville, Tennessee, in the office of the Division Engineer, Department of Highways, Nashville, Tennessee, and in the office of the Resident Engineer, Department of Highways, Clarksville, Tennessee.

D. Q. McCOMB,
Chief Engineer.

Bids:: Sept. 25.

Spavinaw Water Supply Project

Tulsa, Okla.

Sealed proposals for the construction of the major portion of the Spavinaw Water Supply Project for the City of Tulsa, Oklahoma, will be received by the Water Commission of the City of Tulsa, and may be filed at the office of the City Auditor, City Hall, Tulsa, Oklahoma, until 3:00 p.m. Monday, September 25th, 1922, and will be opened and publicly read immediately thereafter at a regular meeting of the Water Commission of the City of Tulsa at 3:00 p.m., Monday, September 25, 1922. Proposals will be received on the following contracts:

Contract No. 1 Telephone Line.
Contract No. 2 Clearing Site of Spavinaw Lake.
Contract N. 3 Spavinaw Dam.
Contract No. 4 60 in. Reinforced Concrete Pipe.
Contract No. 5 Tunnel and Approaches.
Contract No. 6 54 in. Reinforced Concrete Pipe.
Contract No. 7 Mohawk Reservoir.
Contract No. 8 Furnishing Cast Iron or Steel Pipe and Specials.
Contract No. 9 Furnishing Gate Valves.
Contract No. 10 Laying Cast Iron or Steel Pipe.
Contract No. 11 High Pressure Reservoir.

After the reading of the bids on these contracts they will be immediately considered, but in no event will any contract or contracts be awarded earlier than forty-eight (48) hours thereafter.

The principal quantities are approximately as follows:

DAM: Concrete, 79,000 cubic yards. Earth embankment, 182,000 cubic yards.

PIPE: 28 miles of 60 in. and 25 miles of 54 in. pre-cast reinforced concrete pipe.

Earth Excavation in trench, 310,000 cubic yards.

Rock Excavation in trench, 26,000 cubic yards.

TUNNEL: 7,000 ft. 84 in. Tunnel.
3,050 ft. 84 in. monolithic concrete conduit.

MOHAWK RESERVOIR: 300,000 cubic yards earth embankment.

REINFORCED CONCRETE HIGH PRESSURE RESERVOIR OR RESERVOIRS: 10,000,000 gal. aggregate capacity; 10,000 ft. 36 in. Cast Iron or Steel Pipe; 6,000 ft. 30 in. Cast Iron or Steel Pipe; 8,000 ft. 20 in. Cast Iron Pipe. Specials and Valves.

Each proposal must be accompanied by a certified check on any reputable bank or trust company, payable without reserve to the City of Tulsa, Oklahoma, for five per cent (5%) of the amount of the bid.

All proposals must be made on blank forms furnished by the City of Tulsa and in accordance with the "Requirements for Bidding and Instructions to Bidders."

Proposals may be tendered on one or more contracts or on all of the contracts, but any proposal must include all items under the contract or contracts for which bid is tendered.

Plans, Specifications and Requirements for Bidding and Instructions to Bidders are on file at the Office of the Water Commission at the City Hall and may be seen at the office of Trammell and Holway, Engineers on the Spavinaw Water Supply Project, 329 Kennedy Building, Tulsa, Oklahoma, or at the office of Dabney H. Maury, Consulting Engineer for the said Project, 1445 Monadnock Block, Chicago, Illinois. Complete plans and specifications will be furnished by the Engineers or by the Consulting Engineer, upon the deposit of $50.00 by check payable to Trammell and Holway. Upon return of the plans and specifications in good condition within a reasonable time after the awarding of the contracts, $30.00 will be refunded. Proportionate deposit and refund may be arranged for if bidder desires only parts of the plans.

The Water Commission reserves the right to reject any bid or bids, or all bids, and to waive any informalities.

WATER COMMISSION OF THE CITY OF TULSA.
A. J. RUDD, Chairman.
G. R. McCULLOUGH.
C. S. AVERY.
H. L. STANDEVEN.
A. L. FARMER.
ROY GARBETT.
City Auditor.

TRAMMELL and HOLWAY, Engineers,
329 Kennedy Building,
Tulsa, Oklahoma.

DABNEY H. MAURY,
Consulting Engineer,
Chicago, Ill.

OFFICIAL PROPOSALS

Bids: Sept. 5.

Street Paving and Storm Sewer

Highland Park, N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Highland Park at the Borough Council Chambers, No. 10 North Second Avenue, Highland Park, New Jersey, on Tuesday, September 5, 1922, at 8 o'clock p.m., ordinance time (7 p.m. Eastern Standard Time) for the construction of pavements on the following streets, to wit: Montgomery Street, Johnson Street, Cedar Avenue, Adelaide Avenue, South Sixth Avenue. And for the construction of a storm sewer on Cedar Avenue.

The work will in general consist of about
5,890 Cu.Yds. of Excavation.
15,962 Sq.Yds. of One Course Reinforced Cement Concrete Pavement, 6" in depth at the sides, and 8" in depth at the center.
8,612 Lin.Ft. of Concrete Curbing, set integral with the pavement.
755 Lin.Ft. of 15" Vitrified Pipe Storm Sewer.

All of said work to be done in accordance with the plans, profiles and specifications prepared by Raymond P. Wilson, Civil Engr., 46 Paterson Street, New Brunswick, N. J., which said plans, profiles and specifications have been adopted by the Borough Council of the Borough of Highland Park and are now on file at the office of the Borough Clerk, 10 North Second Avenue, Highland Park, N. J., where they may be seen by bidders or a set of the said plans, profiles and specifications can be secured from Raymond P. Wilson, Civil Engr., by depositing Five dollars ($5.00) which will be refunded upon the return of the plans, profiles and specifications in good condition within seven (7) days after the award of the contract. All bids must be on the form of proposal to be obtained from the said Raymond P. Wilson.

Each bidder must accompany his bid with a certified check for Four thousand dollars ($4,000.00) payable unconditionally to the Collector of the Borough of Highland Park, which said check must be presented with the bid as a guarantee that the bidder will within ten (10) days after receiving the award enter into and execute a contract for the faithful performance of the work to be done under said contract, and said bid must be in a sealed envelope and marked "Proposal for Concrete Pavement."

The successful bidder will also be required to furnish a Surety Company bond to the Borough of Highland Park in the full amount of the contract price for the faithful performance of the work to be done under said contract, said bond to be approved as to sufficiency and form by the Borough Attorney.

In case of failure to execute the contract and furnish the required bond within ten (10) days after due notice that the contract has been awarded to him, the successful bidder shall forfeit his deposit to the Borough of Highland Park as liquidated damages.

The right to reject any or all bids is reserved by the Mayor and Borough Council.

All of said work must be completed within sixty (60) working days.

Bids: October.

Sewer Tunnel

Tulsa, Okla.

The Board of Commissioners of the City of Tulsa, Oklahoma, contemplates receiving proposals about the middle of October for the construction of the Eleventh Street Relief Sewer, in tunnel cut.

This sewer to be 5,100 ft. long and 15½ ft. x 14 ft. in size, Bond Issue $900,000.00.

Formal notice to contractors to appear later.

CHARLES SCHULTZ,
City Engineer.

W. W. HORNER,
Consulting Engineer,
St. Louis, Mo.

OFFICIAL PROPOSALS

Bids: Sept. 11.

Reinforced Concrete Pavement

White Plains, N. Y.

Sealed bids or proposals for the improvement of Mamaroneck Avenue from Washington Square northerly to County Highway No. 1581 with reinforced concrete pavement, a distance of 1.24 miles in the Village of Mamaroneck, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 a.m., September 11, 1922 (Standard Time.)

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of Five Dollars ($5.00).

August 21, 1922.

BOARD OF SUPERVISORS.
FRED L. MERRITT, Clerk.

Maximum Competition Is Assured

these advertisers through *Engineering News-Record's* large NATIONAL circulation, reaching almost every contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

Bids: Sept. 8.

Mechanical Equipment for Wilmington Marine Terminals

Wilmington, Del.

Proposals will be received until 11 o'clock a.m. Daylight Saving Time, on the eighth day of September, 1922, at the office of the Board of Harbor Commissioners, Wilmington, Delaware, and then and there publicly opened, for furnishing the following mechanical equipment, all quantities being approximate:

1—Railroad Track Scale; 200 tons capacity.
1—Steam Locomotive Crane; 20 tons capacity; 50 ft. boom.
1—Steam Locomotive Crane; 20 tons capacity; 60 ft. boom.
1—Steam Locomotive Crane; 20 tons capacity; 70 ft. boom.
1 and 2—Light Duty, Traveling, Electric Portal Cranes; 2½ tons capacity.
4—Portable Electric Dock Winches; 2 tons capacity.
1—Mechanical Cargo Ramp.
6—Electric Tractor Trucks, with two spare Battery Equipments.
3—Load Carrying Trucks.
50—Trailers for Electric Tractors.
50—Stevedore Hand Trucks.

Specifications covering this equipment may be obtained upon application to the undersigned and the payment of Five Dollars, which sum will be refunded, if the plans and specifications are returned within fifteen days after receipt of bids.

No proposal will be considered unless accompanied by a certified check to the order of the Board of Harbor Commissioners for 5 per cent of the amount of the bid, or a satisfactory guaranty bond equal in amount, which will later be returned.

The right is reserved to reject any or all bids.

BOARD OF HARBOR COMMISSIONERS,
Room 351, Municipal Building,
Wilmington, Delaware.

OFFICIAL PROPOSALS

Bids: Sept. 12.

Road Work

Bridgeton, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Cumberland for the reconstruction of Section 1 of Landis Avenue in the County of Cumberland, with a warrenite-bitulithic surface pavement upon a concrete foundation, estimated amount of warrenite-bitulithic surface pavement required is 54,112 square yards, of concrete foundation 56,960 square yards, and opened and read in public at the Court House in the City of Bridgeton, on the 12th day of September, 1922, at one-thirty o'clock p.m., Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Walter M. Sharp, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said Engineer at Bridgeton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice an payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to E. C. Ott, Chairman of the Public Road Committee, and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of The Board of Chosen Freeholders of the County of Cumberland.

HOWARD L. TYLER,
Clerk.

Bids: Aug. 29.

Ornamental Lighting

Long Branch, N. J.

Public notice is hereby given that sealed proposals are invited and will be received for installing ornamental lights on Ocean Avenue from Sea View Avenue to Brighton Avenue by the Board of Commissioners of the City of Long Branch, N. J., August 29th, 1922, at 8 o'clock in the evening in the City Council Chambers, or as soon thereafter as same can be presented.

Plans and specifications as approved by the Board of Commissioners are on file in the office of the City Clerk and may be obtained any time during business hours upon a deposit of $10.00 which said amount will be returned at the time the bids are opened upon surrender of said plans and specifications in good condition.

All bids must be sealed and marked, "Bids for Ornamental Lighting," and addressed to Frank C. Quinn, City Clerk. No bid will be considered unless accompanied by a certified check for ten per cent of the amount bid on the proposed work, drawn to the order of Frank L. Howland, City Treasurer, or cash in equal amount.

The Board of Commissioners reserve the right to reject any or all bids if deemed to the best interest of the Board to do so.

Dated Long Branch, N. J., August 17, 1922.

FRANK C. QUINN,
City Clerk.

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Your signature on a personal surety bond appears as a liability in your own financial statement until the suretyship is discharged.

ÆTNA CASUALTY AND SURETY COMPANY
HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Sept. 15.

Power Piping and Heating System

Hammond, Ind.

SEALED PROPOSALS will be received at the Office of the Board of Public Works of the City of Richmond, Indiana, until 2 o'clock p.m., Central Standard Time, on the FIFTEENTH day of SEPTEMBER, 1922, to furnish all labor, material, tools and appliances and to do all the work required for the construction and installation of a complete Power Piping and Steam Heating System in connection with a new Pumping Station, all in accordance with Drawings and Specifications on file at the Office of the Board of Public Works of the City of Hammond.

SPECIFICATIONS and DRAWINGS may be examined at the Office of the said Board and at the Office of John Ericson, Consulting Engineer, 30 North La Salle Street, Chicago, Illinois, or obtained at the latter office by making a deposit of Ten ($10.00) Dollars, Five ($5.00) Dollars of which will be refunded on return of Drawings and Specifications within fifteen days following the opening of bids.

A certified check or equivalent surety, payable to the City of Hammond, for a sum not less than Five (5%) per cent of the amount of the bid shall be deposited with each proposal as a guarantee that the bidder will execute contract for the construction at the prices bid.

A satisfactory bond will be required for the faithful performance of the specified work for an amount equal to the aggregate payments to be made under the contract.

A non-collusion affidavit is required with each proposal in accordance with the Laws of the State of Indiana.

Bids will be publicly opened, read and scheduled and the contract awarded as soon thereafter as practicable.

The Board of Public Works reserves the right to reject any or all bids, and to waive technical defects in a proposal advantageous to the City of Hammond.

A. J. SWANSON,
Chairman.
JACOB WIKER,
F. C. DIETRICH,
Board of Public Works.

E. W. MILES,
Clerk Water Department.

Bids: Sept. 12.

Road Improvement

Bridgeton, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Cumberland for the improvement of what is known as the Cohansey Road, situated in the County of Cumberland, with gravel surface, estimated amount of gravel surface pavement required is 73,439 square yards, and opened and read in public at the Court House in the City of Bridgeton, on the 12th day of September, 1922, at one-thirty o'clock p.m., Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Walter M. Sharp, County Engineer, and approved by the State Highway Commission, have bbeen filed in the office of the said Engineer at Bridgeton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to E. C. Ott, Chairman of the Public Road Committee, and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of The Board of Chosen Freeholders of the County of Cumberland.

HOWARD L. TYLER,
Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 30 .

Street Improvement

Newburgh, N. Y.

Sealed proposals will be received by the City Manager at his office in the City Hall, Newburgh, N. Y., until 12 o'clock noon, Friday, August 30, 1922, for the paving and otherwise improving Renwick Street between the West Shore R.R. and Liberty Street and South Street between Water and Liberty Streets with either granite block or vitrified hillside brick pavement.

The approximate quantities of pavement to be laid are as follows:

South Street, about 3,820 sq.yds.
Renwick Street, about 3,900 sq.yds.

Bids will be received on each street separately and cash or a certified check for $1,500.00 must accompany each bid.

Plans and specifications are on file in the office of the City Engineer.

The City reserves the right to reject any or all bids received.

W. J. McKAY,
City Manager.

U. S. GOVERNMENT

PROPOSALS FOR SPURDIKE CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for construction of spurdikes at Southwest Pass, Mississippi River. Further information on application.

PROPOSALS FOR SPURDIKE CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for construction of spurdikes at Head of Passes, Mississippi River. Further information on application.

PROPOSALS FOR BULKHEAD CONSTRUCTION.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 5, 1922, and then opened, for bulkhead construction at Southwest Pass, Mississippi River. Further information on application.

PROPOSALS FOR STONE.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 7, 1922, and then opened, for furnishing and delivering stone for Southwest Pass, Head of Passes, and South Pass, Mississippi River. Further information on application.

U. S. ENGINEER OFFICE, FLORENCE, ALA.—Sealed proposals will be received here until 11 a.m., September 18, 1922, and then opened, for the construction and delivery of two steel barges. Further information on application.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Sept. 21, 1922, and then opened, for jetty repairs at the entrance to St. Johns River, Fla. Further information on application.

U. S. ENGINEER OFFICE, FLORENCE, ALA.—Sealed proposals will be received here until 11 a.m., September 18, 1922, and then opened, for furnishing and delivering one hydraulic turbine of 1,000 horsepower capacity, with governor. Further information on application.

..U. S. ENGINEER OFFICE, Nashville, Tenn.—Sealed proposals will be received here until 11 a. m., Sept. 5, 1922, and then opened, for steel gates for Lock F, Cumberland River. Further information on application.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., August 21, 1922.—SEALED PROPOSALS will be opened in this office at 3 p.m., Sept. 5, 1922, for furnishing and delivering approximately five million brick at the site of the United States Veterans Hospital at Chelsea, N. Y. Specifications may be obtained from the Superintendent of Construction at Chelsea, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, BUFFALO, N. Y.—SEALED PROPOSALS will be received here until 11 a.m. (Eastern standard time) Aug. 25, 1922, and then opened, for constructing Office-Storehouse Building and six Operating Houses at Black Rock Lock and Storehouse at Ferry Street Bridge, Buffalo, N. Y. Further information on application.

SEALED PROPOSALS for constructing a concrete road at Picatinny Arsenal, Dover, N. J., will be received and publicly opened at 11 a.m. daylight saving time, Sept. 1, 1922 at Constructing Quartermaster's Office, Room 510, 39 Whitehall St., N. Y. C., N. Y. Information at above address.

U. S. ENGINEER OFFICE, Mobile, Ala.—Sealed proposals will be received here until 11 o'clock a.m., September 5, 1922, and then opened, for dredge pontoons and discharge pipe for the U. S. 20-inch hydraulic pipe-line dredge Wahalak. Further information on application.

PROPOSALS FOR SAND AND GRAVEL.—U. S. Engineer Office, 329 Customhouse, New Orleans, La., Sealed proposals will be received here until 9:00 A.M., Sept. 1, 1922, and then opened, for furnishing sand and gravel for Southwest Pass, Mississippi River. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock A.M., Eastern Standard Time, Aug. 28, 1922, and then opened for dredging in Bridgeport Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock A.M., Eastern Standard Time, August 31, 1922, and then opened, for dredging in Pawtucket (Seekonk) River, R. I. Further information on application.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y.—Sealed proposals for dredging in Hudson River, N. Y., will be received here until 12 M., September 5, 1922, (daylight saving time) and then opened. Further information on application.

PROPOSALS FOR STEEL OIL BARGES.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9:00 a.m., Sept. 15, 1922, and then opened, for construction and delivery of two 4,000-barrel steel oil barges in the Mississippi River, at New Orleans, La. Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed Proposals will be received here until 11 o'clock a.m., standard eastern time, September 15, 1922, and then opened, for repairing of east jetty at entrance to Nantucket Harbor, Mass. Further information on application.

SEALED PROPOSALS will be received and publicly opened in the office of the Quartermaster General, Room 2306, Munitions Building, Washington, D. C., at 11:00 A.M., September 12, 1922, for the construction of a group of hospital buildings to be built at Northampton, Massachusetts. Work includes construction of twenty-four (24) buildings, built of re-enforced concrete and brick, complete with sewer, water and lighting systems, roads and walks (footings for nine buildings now under contract). Plans and specifications may be obtained after August 15th, upon deposit of $100, from the office of the Quartermaster General, Room 2312 Munitions Building, Washington, D. C., or from the office of the Constructing Quartermaster, Chamber of Commerce Building, Northampton, Mass. One set of plans and specifications will be on exhibition at the following stations: Office Constructing Quartermaster, 39 Whitehall Bldg., New York City; Office Constructing Quartermaster, Army Supply Base, Boston, Mass.; Office Quartermaster Supply Officer, Chicago Intermediate Depot, 1819 West Pershing Road, Chicago, Ill.; and Office Constructing Quartermaster, Scott Field, Belleville, Ill.

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E. N. R.

POSITIONS VACANT

ASSISTANT in civil engineering, wanted for 10 months, for which the salary is $1,000, starting September 1st. This year's graduate preferred. Address, giving age and alma mater. Head, Department of Civil Engineering, Lafayette College, Easton, Pa.

CHECKERS and detailers on structural steel. Give age, experience and salary expected. P-852, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

CIVIL engineering graduate with one or more years' experience, preferably in highway work, for traveling position in sales promotion department of established corporation. Reply fully stating age; married or single; Alma Mater; experience; salary desired and references. Suggest enclose photograph which will later be returned. P-841, Eng. News-Record, Leader News Bldg., Cleveland, O.

DISTRICT manager wanted to take charge of promotional and educational work on the use of a basic product used in building, agriculture and very extensively in the industrial field. This work is being carried on by a national trade association which is extending its activities materially. District headquarters will be St. Louis; national headquarters, Washington, D. C. Man must be very high grade with business experience in organization, sales and executive capacities. Preferably technical college graduate, but essentially a sales type with initiative, adaptability, common sense and perseverance, good address and ability to co-operate. Services required October 1st. Write all you have to say in first letter. P-871, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

Several Experienced

Structural Steel Draftsmen

for detailing and checking. Give experience, salary expected and when you can report for work.

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Learn "Line" and "Grade" by Actual Practice.

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POSITIONS VACANT

DRAFTSMAN and designer, thoroughly experienced in the design of water works and power plants, and sewerage systems. Field experience desirable. Location, Consulting Engineer's office in North Carolina. Send sample drawings and references and state salary expected. P-576, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

FIRST class structural detailers and checkers wanted. Weatherly Steel Company, Markle Bank Building, Hazelton, Pa.

GRADUATE civil engineer, experienced in reinforced concrete and steel building design, wanted to take charge of drafting work in large industrial plant. Give full particulars, salary expected and when available. P-819, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

INSTRUMENTMAN for hydro-electric construction work located within 100 miles New York City. Position open about Sept. 15th. Give full statement of education, experience, qualifications and reference. P-850, Eng. News-Record.

SEVERAL structural checkers wanted. Must be first class men. Positions permanent if services are satisfactory. Give all information as to experience, salary desired and earliest date you can report. Location, Detroit. P-578, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

STRUCTURAL detailers and checkers on mill and office building and bridge work. Give record of experience and salary desired. Philadelphia district. P-829, Eng. News-Record, Leader-News Bldg., Cleveland, O.

STRUCTURAL steel and reinforced concrete draftsmen and checkers. Give experience in detail, age, nationality, married or single, lowest salary to start, and how soon can report. Apply Southern Engineering Company, Charlotte, North Carolina.

STRUCTURAL steel engineer and detailer, familiar with building construction. State experience and salary desired. Permanent position if satisfactory. Apply James McKinney & Son, 927 Broadway, Albany, N. Y.

POSITIONS VACANT

STRUCTURAL steel and railroad bridge draftsmen wanted, salary $158 and $168 per month. Please state age, nationality, education, experience in full and date you can report for work. Address P. G. Lang, Jr., Engineer of Bridges, Baltimore and Ohio Railroad Company, Baltimore, Md.

STRUCTURAL detailers and checkers wanted on shop drawings for industrial buildings. Applications from experienced men only will be considered. State experience, age, nationality, salary wanted and date available in first letter. The Bellefontaine Bridge and Steel Co., Bellefontaine, Ohio.

STRUCTURAL steel draftsman, three to five years' experience on building design, $50 weekly. P-851, Eng. News-Record.

SUPERINTENDENT of Construction—The construction department of a large public utility has an opening for a Superintendent capable of taking charge of field construction, on a modern Central Station Steam Plant, location Middle Atlantic States. Reply should give experience, education, age, references, photograph and salary required. P-832, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

SUPERINTENDENT and grade foreman wanted for Concrete gang. Must be familiar with State road work. Write fully stating experience and salary expected. Geo. J. Daniels, Gen'l Del'y, Hammond, Indiana.

TECHNICAL graduate with several years' experience wanted by Consulting Engineer, in North Carolina, to act as Resident Engineer in charge of construction of Water Works, Sewerage and Power Plants. In reply, state salary expected and inclose references. P-577, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

TWO sewerage designing engineers wanted for work on interceptor and pumping station scheme. State experience, age and salary required to E. R. Gray, City Engineer, Hamilton, Ont., Canada.

HOME Study

(BY MAIL)

A lecture for YOU, if you are not filling the position you think you should have. Do you believe that real ability can be submerged? Don't you realize that men are paid for what they KNOW, and not for taking orders and doing as others direct? It is the man who gives the directions to whom a large salary is being paid. Wilson courses are more than just ordinary courses. They are a system of training inaugurated by an expert to meet the needs of the man already in the field who lacks the essentials of a first class practical training. By this system any man who is equipped with the necessary mathematics, can reach the top in his profession. Thousands of Draftsmen, Junior Engineers, Architectural Draftsmen, technical graduates just through their school work and others who have studied less advanced courses, are finding in these studies the means of "finishing" their education, and reaching the highest places in the profession.

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